

AASP African American Studies Spring 2016

AASP100 Introduction to African American Studies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

0101	Shane Walsh MWF 10:00am - 10:50am	Seats (Total: 35) LEF 1220
0102	Shane Walsh MWF 12:00pm - 12:50pm	Seats (Total: 35) LEF 1201
0103	Jonathan England TuTh 11:00am - 12:15pm	Seats (Total: 35) HBK 0109
0104	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 30) SQH 1107
0105	Jason Nichols TuTh 11:00am - 12:15pm	Seats (Total: 35) LEF 1220
0106	Jason Nichols TuTh 2:00pm - 3:15pm	Seats (Total: 35) PLS 1119

AASP100H Introduction to African American Studies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

Restricted to HONR students only.

0101	Jonathan England TuTh 12:30pm - 1:45pm	Seats (Total: 5) SQH 1107
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0102	Jonathan England	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	HBK 0109

AASP101 Public Policy and the Black Community

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Formerly: AASP300.

The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.

0101	Gniesha Dinwiddie	Seats (Total: 39)
	TuTh 12:30pm - 1:45pm	TYD 2106

AASP189I HIV/AIDS in a Global Perspective

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE, D General Education: DSSP, DVUP, SCIS

0101	Sangeetha Madhavan	Seats (Total: 120)
	TuTh 9:30am - 10:45am	SKN 0200

AASP200 African Civilization

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

A survey of African civilizations from 4500 B.C. to present. Analysis of traditional social systems. Discussion of the impact of European colonization on these civilizations. Analysis of the influence of traditional African social systems on modern African institutions as well as discussion of contemporary processes of Africanization.

0101	Marshal Washington, Ibrahim Kargbo	Seats (Total: 40)
	W 4:00pm - 6:30pm	TYD 2102

AASP202 Black Culture in the United States

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Renina Jarmon	Seats (Total: 35)
	MWF 11:00am - 11:50am	ARC 1101
0201	Renina Jarmon	Seats (Total: 35)
	MWF 1:00pm - 1:50pm	TYD 2106
0301	Robert Choflet	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 0101
0401	Robert Choflet	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	SQH 1107

AASP202H

Black Culture in the United States

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.

0101	Robert Choflet	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	TYD 0101

AASP274

Creative Writing Through The Eyes of African Americans: A Beginning Workshop

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must not have completed any courses from ENGL278C, AASP274, AASP298W, ENGL274, ENGL271, ENGL294N, or ENGL294. Also offered as: ENGL274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: AASP298W.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Dorothy Phaire	Seats (Total: 20)
	TuTh 9:30am - 10:45am	NCC 0120

AASP297**Research Methods in African American Studies**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AASP101 or AASP202. Restriction: Must be in African American Studies program. Credit only granted for: AASP297 or AASP299R. Formerly: AASP299R.

Introduces African American Studies majors to the basic research skills methodologies, sources, and repositories for studying African Diaspora. Students will be required to select a research topic, write a research proposal, develop an annotated bibliography, and in the process will be prepared for completing their senior thesis or other significant writing projects necessary to fulfill the requirements of the major.

0101	Joseph Richardson	Seats (Total: 20)
	Tu 4:00pm - 6:30pm	TLF 1102

AASP298A**Special Topics in Afro-American Studies: African-American History, 1865 - Present**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SH, D General Education: DSHS

0101	Elsa Barkley Brown	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0103

AASP298B**Special Topics in African American Studies; Constructions of Manhood & Womanhood in the Black Community**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Also offered as WMST265. Credit granted for WMST265 or AASP298B.

0101	Dennis Doster	Seats (Total: 30)
	W 6:00pm - 8:30pm	KEY 0103

AASP298F**Special Topics in African American Studies; Caribbean Film and Literature**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

Contact department for information to register for this course.

AASP298L Special Topics in Afro-American Studies: African-American Literature and Culture

Credits: 3 Grading Method: Regular, CORE: HL, D General Education: DSHU,
Pass-Fail, Audit DVUP

Also offered as ENGL234. Credit granted for AASP298L or ENGL234.

0101	Emily Perez	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TWS 0214
0102	Laura Williams	Seats (Total: 30)
	MWF 10:00am - 10:50am	TWS 1321

AASP298Z Special Topics in African American Studies; Jazz as a Cultural Art Form

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introductory multi-disciplinary and inter-disciplinary educational experience to explore issues relevant to black life, cultural experiences, and political, economic, and artistic development.

0101	Ronald Zeigler	Seats (Total: 43)
	M 2:00pm - 4:30pm	NCC 0130

AASP299C Selected Topics in African American Studies; The Color Lab

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

An introductory multi-disciplinary academic exploration of the cultural, political, and economic issues relevant to Africans and African-Americans.

0101	Sophie Aiyer	Seats (Total: 15)
	Contact instructor or department for details.	

AASP303 Computer Applications in African American Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: STAT100, MATH111, or SOCY201; or students who have taken courses with comparable content may contact the department.

Introduction to statistics and database processing software used in model estimation and simulation in policy analysis. Special emphasis on applications for applied research on policy problems confronting minority communities.

0101	Tainya Clarke	Seats (Total: 20)
	TuTh 5:30pm - 6:45pm	LEF 0214

AASP305 Theoretical, Methodological and Policy Research Issues in African American Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AASP301; and (STAT100, MATH111, PSYC200, BMGT230, or SOCY201). Or students who have taken courses with comparable content may contact the department. Formerly: AASP401.

Theories and concepts in the social and behavioral sciences relating to problems in minority communities. Issues include validity and soundness of theoretical arguments, epistemological questions of various methodologies and the relationship between policy making and policy research.

0101	Ricco Hall	Seats (Total: 30)
	W 5:00pm - 7:30pm	JMZ 0103

AASP310 African Slave Trade

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AASP202 or AASP100; or permission of BSOS-African American Studies department. Formerly: AASP311.

The relationship of the slave trade of Africans to the development of British capitalism and its industrial revolution; and to the economic and social development of the Americas.

0101	Ibrahim Kargbo, Shane Walsh	Seats (Total: 35)
	W 1:00pm - 3:30pm	HBK 0105

AASP386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Permission of BSOS-African American Studies department; and junior standing or higher.

0101	Valencia Skeeter	Seats (Total: 10)
	Th 10:00am - 12:30pm	Location: TBA
0201	Sophie Aiyer	Seats (Total: 10)
	Contact instructor or department for details.	

AASP396**Independent Study Non-Thesis Option**

Credits: 3 Grading Method: Regular

Prerequisite: AASP386 and AASP297. Restriction: Must be in African American Studies program. Credit only granted for: AASP396 or AASP397.

A research seminar that allows African American Studies majors to complete an independent study research project in lieu of completing the AASP397: Senior Thesis. Students will examine various concepts of race, gender, labor and ethnicity in the seminar lecture component to be applied toward their specific research projects.

0101	Sangeetha Madhavan	Seats (Total: 10)
	W 9:30am - 12:00pm	TLF 1102

AASP397**Senior Thesis**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of BSOS-African American Studies department.

Directed research in African American Studies resulting in the completion and defense of a senior thesis.

Contact department for information to register for this course.

AASP398C**Selected Topics in the African Diaspora; African American Literature**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Analysis of the historical experiences and cultures of Africans in the diaspora.

Prerequisite: Must have completed two lower-level English courses, at least one in literature; or permission of ARHU-English department. Also offered as AASP398C. Credit granted for AASP398C or ENGL317.

0101	Julius Fleming	Seats (Total: 29)
	MW 3:30pm - 4:45pm	TWS 0201

AASP398Q**Selected Topics in the African Diaspora; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

Credits: 3 Grading Method: Regular

Analysis of the historical experiences and cultures of Africans in the diaspora.

0101	Robert Choflet	Seats (Total: 35)
	Th 4:00pm - 6:30pm	LEF 1220

AASP402 Classic Readings in African American Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AASP202 or AASP100.

Classic readings of the social, economic and political status of blacks and other minorities in the United States and the Americas.

0101	Shane Walsh	Seats (Total: 23)
	M 4:00pm - 6:30pm	LEF 1222

AASP441 Science, Technology, and the Black Community

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Prerequisite: HIST255, AASP202, or AASP100; or permission of BSOS-African American Studies department.

Scientific knowledge and skills in solving technological and social problems, particularly those faced by the black community. Examines the evolution and development of African and African American contributions to science. Surveys the impact of technological changes on minority communities.

0101	Jerry Semper	Seats (Total: 40)
	W 4:00pm - 6:30pm	SQH 1101

AASP443 Blacks and the Law

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Prerequisite: HIST255, AASP202, or AASP100; or permission of BSOS-African American Studies department.

The relationship between black Americans and the law, particularly criminal law, criminal institutions and the criminal justice system. Examines historical changes in the legal status of blacks and changes in the causes of racial disparities in criminal involvement and punishments.

0101	Joseph Clark	Seats (Total: 35)
	W 6:00pm - 8:30pm	LEF 1220

AASP478B Humanities Topics in African American Studies; African-American Literature: The Beginning to 1910

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

0101	Edlie Wong	Seats (Total: 24)
	TuTh 12:30pm - 1:45pm	TWS 0201

AASP478L Humanities Topics in African American Studies; Literature and the Shaping of the Caribbean

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.

Contact department for information to register for this course.

AASP498F Special Topics in Black Culture; Women in Caribbean

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Contact department for information to register for this course.

AASP498K Special Topics in Black Culture; Black Masculinities in Art, Music, and Dacne

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Jason Nichols	Seats (Total: 35)
	Tu 4:00pm - 6:30pm	KEY 0116

AASP498P Special Topics in Black Culture; Urban Problems and Policy Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

SG91	Laszlo Korossy	Seats (Total: 40)
	M 3:30pm - 6:00pm	BLD3 4220
<i>Limit to CCJS students at Shady Grove.</i>		

AASP498W Special Topics in Black Culture; Washington and Prince George's History, Culture, and Public Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

0101	Jonathan England	Seats (Total: 45)
	Tu 3:30pm - 6:00pm	TYD 1118

AASP499N Advanced Topics in Public Policy and the Black Community; Gentrification: The Evolution of Urban Neighborhoods

Credits: 3 Grading Method: Regular, General Education: DVUP
Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Leila Batties	Seats (Total: 35)
	Th 2:00pm - 4:45pm	TYD 0117

AASP499Q Advanced Topics in Public Policy and the Black Community; Social Inequalities and Racial Disparities in Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Gniesha Dinwiddie	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	TYD 2106

AASP499T Advanced Topics in Public Policy and the Black Community; Race, Poverty, Violence and the Juvenile Justice System A Theoretical and Contextual Analysis of Social Capital

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.

0101	Joseph Richardson	Seats (Total: 35)
	Th 4:00pm - 6:30pm	KEY 1117

AAST Asian American Studies Spring 2016

AAST200 Introduction to Asian American Studies

Credits: 3 Grading Method: Regular, CORE: SB, D General Education: DSHS,
Pass-Fail, Audit DVUP

The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.

Also offered as AMST298C. Credit granted for AAST200 or AMST298C.

0101	Jeannette Soon-Ludes	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	TYD 2111

AAST378 Experiential Learning

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Field experience/internship in professional organizations and appropriate private and governmental agencies serving the Asian American community.

0101	Janelle Wong	Seats (Total: 3)
	Contact instructor or department for details.	

AAST388 Independent Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Directed, independent study in Asian American Studies resulting in the completion of an original research paper.

0101	Jude Paul Dizon	Seats (Total: 30)
	Contact instructor or department for details.	

AAST398E Selected Topics in Asian American Studies; Growing Up Asian American: The Asian Immigrant Family and the Second Generation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328V or IMMR319G. Credit granted for AMST328V or AAST398E or IMMR319G. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Thu Khuc	Seats (Total: 38)
	TuTh 2:00pm - 3:15pm	SQH 1121

AAST398J Selected Topics in Asian American Studies; New World Arrivals: Literature of Asian American Migration and Diaspora

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as ENGL349. Credit granted for AAST398J or ENGL349J.

0101	Edlie Wong	Seats (Total: 29)
	TuTh 3:30pm - 4:45pm	TWS 0214

AAST398L Selected Topics in Asian American Studies; Asian Americans in Film

Credits: 3 Grading Method: Regular, General Education: DSHU,
Pass-Fail, Audit DVUP

Study of a specific theme or issue involving the Asian America experience.

0101	Lawrence-Minh Davis	Seats (Total: 40)
	M 5:00pm - 7:30pm	ASY 3207

AAST398T Selected Topics in Asian American Studies; Asian American Graphic Novels

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as ENGL349T. Credit granted for AAST398T or ENGL349T. This class will examine a range of Asian American graphic works expressly as racial projects. That is, we will consider these works as they enter, often self-consciously, a contested arena of racial and cultural representation, not only documenting or exploring Asian American experience and history, but playing with, thinking through, and subverting racialization, racial identity formation and construction, and the politics of visual representation.

0101	Lawrence-Minh Davis	Seats (Total: 30)
	M 2:00pm - 4:30pm	ASY 3215

AAST398V Selected Topics in Asian American Studies; Women of Color Feminisms and Solidarities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328P or WMST498I. Credit granted for AAST398V, AMST328P, or WMST498I. Explores the theoretical and political interventions of women of color feminist thinkers, as well as strategies of community-building and working together across differences.

0101	Thu Khuc	Seats (Total: 20)
	F 10:00am - 12:30pm	SQH 1117

AAST398W Selected Topics in Asian American Studies; Transpacific Sexualities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as AMST328I. Credit granted for AMST328I or AAST398W. From the lore of Polynesian voyagers to modern militarism and tourism, TransPacific Sexualities is a course that examines the way that sexualities, identities, intimacies, and desires have constituted and shaped the social life of native and settler communities throughout the Pacific region.

0101	Jeannette Soon-Ludes	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SQH 1117

AAST398X Selected Topics in Asian American Studies; Immigrant Communities, Leadership, and Organizing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as IMMR319D and USLT498V or AMST399Y. Credit granted for AAST398X or IMMR319D or USLT498V. Class explores the political, social, and historical forces that have shaped the current immigration context. Using popular education and project-based learning, students will critically analyze how public policies related to immigration are affecting young immigrants, with special focus on undocumented youth and students.

0101	Jude Paul Dizon, Yvette Lerma	Seats (Total: 20)
	Th 4:00pm - 6:30pm	BPS 1232

AAST398Y

Selected Topics in Asian American Studies; Refugee Studies Remixed! Resettlement, the Second Generation and Beyond

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a specific theme or issue involving the Asian America experience.

Also offered as IMMR319J or AMST399X. Credit granted for IMMR319J or AAST398Y or AMST399X. Course raises up the experiences of underrepresented Asian American groups in the U.S., with a focus on Southeast Asian Americans (Hmong, Cambodian, Laotian, Vietnamese, and other groups). It begins with attention to the ways in which colonialism and the wars in Southeast Asia have impacted the Southeast Asian Diaspora and resettlement. We will then turn our attention to contemporary issues: identity formation, generational divides, and cooperation; and policies like affirmative action, welfare reform, health care, labor, and mass incarceration. Class will also explore connections to other refugee communities such as Burmese and Bhutanese, as well as non-Asian populations, such as contemporary refugees from Syria and Central America.

0101	Monica Thammarath	Seats (Total: 30)
	W 4:00pm - 6:30pm	SQH 2120

AAST443

Asian American Politics

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DVUP

Credit only granted for: AAST4898T, AAST443, GVPT368C or AMST 498J. Formerly: AAST 498T.

Students will gain a greater understanding of 1)the role of Asian Americans in US politics, 2) the political attitudes and behaviors of Asian Americans and 3)how to conduct research on Asian American politics. Though the class will concentrate on Asian Americans, issues related to Asian American politics will be examined within the larger context of America's multicultural political landscape.

Also offered as GVPT368C and AMST498J. Credit granted for GVPT368C or AA ST443 or AMST498J.

0101	Janelle Wong	Seats (Total: 40)
	MW 2:00pm - 3:15pm	TWS 0234

AAST498A Education and Counseling Issues for Asian Americans

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Also offered as EDCP498A and EDCP798A. Credit granted for EDCP498A, AAST498A, or EDCP798A.

0101	Julie Park	Seats (Total: 20)
	W 1:30pm - 4:00pm	EDU 1315

AAST498G Advanced Topics in Asian American Studies; Independent Study

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

0101	Lawrence-Minh Davis	Seats (Total: 2)
	Contact instructor or department for details.	

AAST498M Advanced Topics in Asian American Studies; Asian American Public Policy

Credits: 3 Grading Method: Regular, General Education: DVCC
Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.

Also offered as AMST418N. Credit only granted for AAST498M or AMST418N.

0101	Philip Nash	Seats (Total: 20)
	M 5:00pm - 7:30pm	SQH 1121

AGNR Agriculture and Natural Resources Spring 2016

AGNR301 Sustainability

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: PUA301. Credit only granted for: AGNR301 or PUA301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Karetnikov	Seats (Total: 100)
	MW 3:30pm - 4:45pm	CHM 1402

AGNR388**Honors Thesis Research**

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0101	Evelyn Cooper	Seats (Total: 20)
	Contact instructor or department for details.	

AGNR489**Field Experience; Travel Study Seminar**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Credit according to time scheduled and organization of the course. A lecture series organized to study in depth a selected phase of agriculture not normally associated with one of the existing programs.

0101	Evelyn Cooper	Seats (Total: 2)
	Contact instructor or department for details.	

AMSC**Applied Mathematics & Scientific
Computation****Spring 2016**

AMSC420**Mathematical Modeling**

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: MATH240 or MATH461; and (MATH241, MATH246, and STAT400); and permission of CMNS-Mathematics department. Also offered as: MATH420. Credit only granted for: AMSC420 or MATH420.

The course will develop skills in mathematical modeling through practical experience. Students will work in groups on specific projects involving real-life problems that are accessible to their existing mathematical backgrounds. In addition to the development of mathematical models, emphasis will be placed on the use of computational methods to investigate these models, and effective oral and written presentation of the results.

0101	Charles Levermore	Seats (Total: 25)
	TuTh 9:30am - 10:45am	MTH 0106

AMSC460

Computational Methods

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131). Also offered as: CMSC460. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Tobias von Petersdorff	Seats (Total: 31)
	MWF 1:00pm - 1:50pm	MTH 0303
0201	Wujun Zhang	Seats (Total: 29)
	TuTh 2:00pm - 3:15pm	MTH 0303
0301	Gil Ariel	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	MTH 0201

AMSC466

Introduction to Numerical Analysis I

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and 1 course with a minimum grade of C- from (CMSC106, CMSC131). Also offered as: CMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Doron Levy	Seats (Total: 32)
	TuTh 2:00pm - 3:15pm	PHY 1219

AMSC498A Selected Topics in Applied Mathematics

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Topics in applied mathematics of special interest to advanced undergraduate students.

Contact department for information to register for this course.

AMSC661 Scientific Computing II

Credits: 3

Grading Method: Regular

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: CMSC661. Credit only granted for: AMSC661 or CMSC661.

Fourier and wavelet transform methods, numerical methods for elliptic partial differential equations, numerical linear algebra for sparse matrices. Finite element methods, numerical methods for time dependent partial differential equations. Techniques for scientific computation with an introduction to the theory and software for each topic. Course is part of a two course sequence (660 and 661), but can be taken independently.

0101	Maria Cameron	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	MTH 1308

AMSC662 Computer Organization and Programming for Scientific Computing

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Must have knowledge of C or Fortran. And AMSC460 or CMSC460; or (CMSC466 or AMSC466); or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: CMSC662. Credit only granted for: AMSC662 or CMSC662.

This course presents fundamental issues of computer hardware, software, parallel computing, and scientific data management for programming for scientific computation.

0101	Ramani Duraiswami	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	CSI 2120

AMSC664**Advanced Scientific Computing II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: AMSC663. Restriction: Permission of instructor. Also offered as: CMSC664. Credit only granted for: AMSC664 or CMSC664.

In the sequence AMSC 663, AMSC 664 students work on a year-long individual project to develop software for a scientific task in a high performance computing environment. Lectures will be given on code development and validation, parallel algorithms for partial differential equations, nonlinear systems, optimization.

0101	Howard Elman	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSI 4122

AMSC674**Partial Differential Equations II**Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH673 or AMSC673; or permission of instructor. Also offered as: MATH674. Credit only granted for: AMSC674 or MATH674.

Boundary value problems for elliptic partial differential equations via operator-theoretic methods. Hilbert spaces of functions. Duality, weak convergence. Sobolev spaces. Spectral theory of compact operators. Eigenfunction expansions.

Offered Spring only.

0101	Jacob Bedrossian	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	MTH 1311

AMSC689**Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

AMSC760**Applied Statistics Practicum**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.

A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.

0101	Konstantina Trivisa	Seats (Total: 10)
Contact instructor or department for details.		

AMSC762**Data Analysis Project**

(Perm req)

Credits: 1

Grading Method: Regular

This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.

0101	Konstantina Trivisa	Seats (Total: 20)
Contact instructor or department for details.		
<i>Prerequisites: Oral and written communications skills are critical for the applied statistician. Limited to MS non-thesis and doctoral students in the Applied Statistics Area, for whom the resulting Projects serve as a Qualifying Exam component.</i>		

AMSC799**Master's Thesis Research**

Credits: 1-6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC808A**Advanced Topics in Applied Mathematics**

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

AMSC808V**Advanced Topics in Applied Mathematics; Stochastic PDE**

Credits: 1-3

Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Tobias von Petersdorff	Seats (Total: 25)
	MWF 11:00am - 11:50am	CHM 0124

AMSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMSC899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AMST American Studies **Spring 2016**

AMST101 Introduction American Studies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

0101	Ashley Minner	Seats (Total: 25)
	MWF 9:00am - 9:50am	KEY 0103
0102	Patricia Akinbola	Seats (Total: 25)
	MWF 10:00am - 10:50am	KEY 0103
0201	Shoji Sanders	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SQH 1111
0202	Melissa Benitez	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	SQH 2120

AMST120 Race, Gender, and the Global Economy

Credits: 3 Grading Method: Regular, General Education: DSHS,
 Pass-Fail, Audit DVUP, SCIS

An exploration of the building blocks of the global economy (e.g. free trade, financial institutions) in relation to racial and gender difference, hierarchies, and ideologies.

0101	Jan Padios	Seats (Total: 20)	
	M 2:00pm - 3:40pm	SQH 1120	
	W 2:00pm - 2:50pm	SQH 1101	Discussion
0102	Jan Padios	Seats (Total: 20)	
	M 2:00pm - 3:40pm	SQH 1120	
	W 3:00pm - 3:50pm	SQH 1101	Discussion
0103	Jan Padios	Seats (Total: 20)	
	M 2:00pm - 3:40pm	SQH 1120	
	F 2:00pm - 2:50pm	SQH 1119	Discussion
0104	Jan Padios	Seats (Total: 20)	
	M 2:00pm - 3:40pm	SQH 1120	
	F 3:00pm - 3:50pm	SQH 1119	Discussion

AMST202 Cultures of Everyday Life in America

Credits: 3 Grading Method: Regular, CORE: SH General Education: DSHS
 Pass-Fail, Audit

Examine the structures and patterns of everyday life in the U.S., utilizing methods such as ethnography, oral history, survey research, and textual, visual, and material cultural analysis.

0101	Jennie Chaplin	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	SQH 1123	

AMST203 Popular Culture in America

Credits: 3 Grading Method: Regular, CORE: HO General Education: DSHU,
 Pass-Fail, Audit DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

0101	Tatiana Benjamin	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	JMZ 1122	

0201	Robert Jiles	Seats (Total: 25)
	MWF 11:00am - 11:50am	TWS 1321

AMST205 **Material Aspects of American Life**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU, DVUP

Historical survey of American material culture. Ways of describing and interpreting accumulated material evidence (e.g., buildings, town plans) introduced by stressing relationship between artifact and culture.

0101	Jung Kim	Seats (Total: 25)
	TuTh 8:00am - 9:15am	SQH 1107

AMST212 **Diversity in American Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploration of the role of diversity in the shaping of American culture. Special emphasis will be placed on the multicultural origins of American popular and material culture, such as foodways and entertainment, and on the experience of "Americanization."

0101	Terrance Wooten	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SQH 1101

AMST298C **Introduction to Asian American Studies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D

Also offered as AAST200. Credit granted for AMST298C or AAST200.

0101	Jeannette Soon-Ludes	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	TYD 2111

AMST328I **Perspectives on Identity and Culture; Transpacific Sexualities**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398W. Credit granted for AAST398W or AMST328I.

0101	Jeannette Soon-Ludes	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SQH 1117

AMST328N Perspectives on Identity and Culture; Introduction to Native American Cultures of the United States

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as ANTH468F and RELS319N. Credit granted for AMST328N, ANTH468F or RELS319N.

0101	L Gordon	Seats (Total: 35)
	M 4:00pm - 6:40pm	PLS 1113

AMST328P Perspectives on Identity and Culture; Women of Color Feminisms and Solidarities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398V and WMST498I. Credit granted for AAST398V, AMST328P, or WMST498I. Explores the theoretical and political interventions of women of color feminist thinkers, as well as strategies of community-building and working together across differences.

0101	Thu Khuc	Seats (Total: 20)
	F 10:00am - 12:30pm	SQH 1117

AMST328V Perspectives on Identity and Culture; Growing up Asian American: The Asian Immigrant Family and the Second Generation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.

Also offered as AAST398E or IMMR319G. Credit granted for AMST328V or AAST398E or IMMR319G. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Thu Khuc	Seats (Total: 38)
	TuTh 2:00pm - 3:15pm	SQH 1121

AMST340 Introduction to History, Theories and Methods in American Studies

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed AMST201; and 2 courses in AMST. Restriction: Must be in American Studies program; and sophomore standing or higher.

Introduction to the process of interdisciplinary research, including research literatures, questions, first-hand sources and library and analytic methods in American Studies. Each student will craft a prospectus for original research.

0101	Robert Chester	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	PLS 1113

AMST386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Permission of ARHU-American Studies department; and junior standing or higher.

Faculty mentored independent learning. Online interaction using Canvas required.

0601	Jo Paoletti	Seats (Total: 10)
	Contact instructor or department for details.	

AMST388 Honors Thesis

(Perm req)

Credits: 3 Grading Method: Regular

Individual research, thesis and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

AMST398 Independent Studies

(Perm req)

Credits: 1-3

Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Contact department for information to register for this course.

AMST398Z

Independent Studies; Maryland Social Entrepreneur Corps I

(Perm req)

Credits: 2

Grading Method: Regular

Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.

Also offered as BMGT398E. Credit granted for BMGT398E or AMST398Z. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

EA05

Sara Herald

Seats (Total: 45)

Meets March 21, 2016 - May 6, 2016

W 5:00pm - 8:35pm

VMH 1418

AMST399X

Community-based American Studies; Refugee Studies Remixed! Resettlement, the Second Generation and Beyond

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Faculty mentored service-learning or community-based research.

Also offered as IMMR319J or AAST398Y. Credit granted for IMMR319J or AAST398Y or AMST399X. Course raises up the experiences of underrepresented Asian American groups in the U.S., with a focus on Southeast Asian Americans (Hmong, Cambodian, Laotian, Vietnamese, and other groups). It begins with attention to the ways in which colonialism and the wars in Southeast Asia have impacted the Southeast Asian Diaspora and resettlement. We will then turn our attention to contemporary issues: identity formation, generational divides, and cooperation; and policies like affirmative action, welfare reform, health care, labor, and mass incarceration. Class will also explore connections to other refugee communities such as Burmese and Bhutanese, as well as non-Asian populations, such as contemporary refugees from Syria and Central America.

0101

Monica Thammarath

Seats (Total: 30)

W 4:00pm - 6:30pm

SQH 2120

AMST399Y

Community-based American Studies; Immigrant Communities, Leadership, and Organizing

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Faculty mentored service-learning or community-based research.

Also offered as IMMR319D and USLT498V or AAST398X. Credit granted for AAST398X or IMMR319D or USLT498V. Class explores the political, social, and historical forces that have shaped the current immigration context. Using popular education and project-based learning, students will critically analyze how public policies related to immigration are affecting young immigrants, with special focus on undocumented youth and students.

0101	Jude Paul Dizon, Yvette Lerma	Seats (Total: 20)
	Th 4:00pm - 6:30pm	BPS 1232

AMST418H

Cultural Themes in America; Cultural Themes in America-Honors

(Perm req)

Credits: 3

Grading Method: Regular

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Prerequisite: At least three credit hours of prior coursework in AMST.

Contact department for information to register for this course.

AMST418M

Cultural Themes in America; Embodied Knowledge: Theorizing and Historicizing "The Black Body"

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

0101	La Marr Bruce	Seats (Total: 26)
	MW 2:00pm - 3:15pm	SQH 1107

AMST418N

Cultural Themes in America; Asian American Public Policy

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."

Also offered as AMST418N. Credit only granted for AAST498M or AMST418N.

0101	Philip Nash	Seats (Total: 20)
	M 5:00pm - 7:30pm	SQH 1121

AMST429J Perspectives on Popular Culture; Social Activism and Popular Culture

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in popular culture studies, including the examination of particular genres, themes, and issues.

Prerequisite: At least three credit hours of prior coursework in AMST. This is a blended learning course covering topics related to social activism and popular culture both online and in the classroom. It is the first semester of the College of Arts and Humanities Social Innovation Scholars program taken in the spring, in which they will learn about social innovation and the public discourse and be paired with a mentor from a non-profit organization. There is also a summer internship and a fall course in which they will implement their innovation. Participation is by application and permission only. To enroll, students must contact the ARHU advising office in 1120 Francis Scott Key, x5-2108. AMST majors are eligible for ARHU439J only.

0101	Sheri Parks	Seats (Total: 15)
	W 3:00pm - 5:30pm	KEY 0117

AMST450 Seminar in American Studies

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: AMST201 and AMST340; and 1 course in AMST. Restriction: Senior standing; and must be in American Studies program.

Developments in theories and methods of American Studies scholarship, with emphasis upon interaction between the humanities and the social sciences in the process of cultural analysis and evaluation.

0101	Jo Paoletti	Seats (Total: 15)
	MW 10:00am - 11:15am	TWS 0134
0201	Jan Padios	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	TWS 0134

AMST498D Special Topics in American Studies; Africana Thought in the Americas

Credits: 3 Grading Method: Regular

Topics of special interest.

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	James Maffie	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	SQH 1107

AMST498G Special Topics in American Studies; Latinas/os on the Silver Screen

Credits: 3 Grading Method: Regular

Topics of special interest.

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Robert Chester	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	PLS 1111

AMST498J Special Topics in American Studies; Asian American Politics

Credits: 3 Grading Method: Regular

Topics of special interest.

Also offered as GVPT368C and AAST443. Credit granted for GVPT368C or AAST443 or AMST498J.

0101	Janelle Wong	Seats (Total: 40)
	MW 2:00pm - 3:15pm	TWS 0234

AMST498M Special Topics in American Studies; Latinas/os and U.S. Popular Culture

Credits: 3 Grading Method: Regular

Topics of special interest.

Prerequisite: At least three credit hours of prior coursework in AMST.

0101	Robert Chester	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	EGR 1108

AMST603 Current Approaches to American Studies

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in one of the following programs (American Studies (Master's); American Studies (Doctoral)) . Or permission of ARHU-American Studies department; and permission of instructor.

Builds on AMST601 and explores contemporary literature, theory, and intellectual issues in American Studies.

0101	La Marr Bruce	Seats (Total: 15)
	W 4:00pm - 6:40pm	TWS 0134

AMST628C Seminar in American Studies; Evolution and Future of Latina/o Studies

Credits: 3 Grading Method: Regular,
Audit

0101	Nancy Mirabal	Seats (Total: 15)
	M 4:00pm - 6:40pm	TWS 0134

AMST628K Seminar in American Studies; Embodied Knowledge: Theorizing and Historicizing "The Black Body"

Credits: 3 Grading Method: Regular,
Audit

0101	La Marr Bruce	Seats (Total: 4)
	MW 2:00pm - 3:15pm	SQH 1107

AMST629I Seminar in American Studies; Material Culture and Internet Studies

Credits: 3 Grading Method: Regular,
Audit

0101	Jason Farman	Seats (Total: 15)
	Th 4:00pm - 6:40pm	TWS 0134

AMST629N Seminar in American Studies; Comparative Race and Ethnicity

Credits: 3 Grading Method: Regular,
Audit

0101	Perla Guerrero	Seats (Total: 15)
	Tu 4:00pm - 6:40pm	TWS 0134

AMST655 Introduction to Museum Scholarship

Credits: 3 Grading Method: Regular,
Audit

Also offered as: HIST610, ANTH655. Credit only granted for: AMST655, ANTH655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Mary Alexander	Seats (Total: 15)
	M 4:00pm - 6:40pm	WDS 1130

AMST698 Directed Readings in American Studies

(Perm req)

Credits: 3 Grading Method: Regular

This course is designed to provide students with the opportunity to pursue independent, interdisciplinary research and reading in specific aspects of American culture under the supervision of a faculty member.

Contact department for information to register for this course.

AMST798 Non-Thesis Research

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

AMST799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

AMST857 Museum Scholarship Practicum

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: AMST856; and permission of Museum Scholarship Program required. Also offered as: ANTH857, HIST811. Credit only granted for: AMST857, ANTH857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0401	Perla Guerrero	Seats (Total: 2)
	Contact instructor or department for details.	

AMST898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

AMST899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANSC Animal Science

Spring 2016

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

ANSC101 Principles of Animal Science

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

A comprehensive overview of the application of biology in the care and use of animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. The role of science in modern food production using animals will be emphasized.

0101	Kasey Moyes	Seats (Total: 80)
	MW 12:00pm - 12:50pm	KEB 1110

ANSC110 Pasture Management and Hay Production

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANSC110 or INAG116.

Identification of forage species suitable for grazing and hay production for horses and other livestock. Crop production including: fertilization and nutrient management, irrigation and drought management, grazing management, weed identification and control, facility layout and design.

0101	R Apter, Amy Burk	Seats (Total: 20)
	MW 9:00am - 10:15am	ANS 1144

ANSC120 Introduction to Dairy Judging

Credits: 2 Grading Method: Regular, Audit

Students will establish an understanding of dairy cattle anatomy and importance in dairy production, while gaining the ability to evaluate dairy cattle for soundness and show-ring appeal. Additionally, the class aims to provide students with confidence in justifying decisions of evaluation and gain confidence in public speaking.

0101	Emily Stepp	Seats (Total: 15)
	F 1:00pm - 1:50pm	ANS 0412
	Contact instructor or department for details.	

ANSC212 Applied Animal Physiology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANSC211; or students who have taken courses with comparable content may contact the department.

The physiology of domesticated animals with emphasis on functions related to homeostasis, and the physiological adaptation to environmental influences.

0101	Zhengguo Xiao, Edward Orlando	Seats (Total: 80)
	MWF 1:00pm - 1:50pm	ANS 0408

ANSC214 Applied Animal Physiology Laboratory

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in ANSC212.

Application of physiological laboratory techniques to domestic and lab animals.

Students must pay a \$50.00 lab materials fee.

0101	Zhengguo Xiao, Edward Orlando	Seats (Total: 28)	
	M 2:00pm - 5:00pm	ANS 0108	Lab
0102	Zhengguo Xiao, Edward Orlando	Seats (Total: 28)	
	W 2:00pm - 5:00pm	ANS 0108	Lab
0103	Edward Orlando, Zhengguo Xiao	Seats (Total: 28)	
	F 2:00pm - 5:00pm	ANS 0108	Lab

ANSC232 Horse Management

Credits: 3 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103. Credit only granted for: ANSC232 or ANSC332. Formerly: ANSC332.

An introductory course on the care, management, and use of horses. Major topics include the industry, breeds, conformation, feeding, health, reproduction, facilities and business.

Students must pay a \$50.00 lab materials fee.

0101	Amy Burk	Seats (Total: 24)		
	MW 11:00am - 11:50am	ANS 0408		
	F 9:00am - 11:00am	ANS 0412	Lab	
0102	Amy Burk	Seats (Total: 24)		
	MW 11:00am - 11:50am	ANS 0408		
	F 11:00am - 1:00pm	ANS 0408	Lab	

ANSC235 Applied Small Ruminant Parturition

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ANSC101 and ANSC103. Restriction: Must be in one of the following programs (Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine).

Popularly known as "Lamb Watch", the course provides an immersion environment for learning and understanding pre- and post-natal care of ewes and lambs through direct, hands-on involvement in the birthing process and care of the neonate through weaning. Covered topics include zoonoses, basic reproductive physiology of the sheep, normal and abnormal delivery, management of lambs, qualitative assessment, breeding principles, etc.

Students must pay a \$50.00 lab materials fee.

0101	Sarah Balcom, Angela Black	Seats (Total: 16)		
	W 3:00pm - 3:50pm	ANS 0408		
	M 2:00pm - 3:30pm	Location: TBA	Lab	
0102	Sarah Balcom, Angela Black	Seats (Total: 16)		
	W 3:00pm - 3:50pm	ANS 0408		
	Th 2:00pm - 3:30pm	Location: TBA	Lab	

ANSC237 Equine Reproduction

Credits: 3 Grading Method: Regular

Prerequisite: ANSC232. Credit only granted for: ANSC237 or INAG233. Additional information: Course participation will include nightly checks of mares in the two weeks prior to parturition, and out-of-class time imprinting and working with newborn foals.

Students learn the fundamental skills necessary to manage equine reproductive services including anatomy/physiology of genital tracts, estrus detection, manipulation of the estrous cycle, survey of reproductive techniques, infertility, mare, foal and stallion management. Students will be required to attend a foaling and check mares outside of regularly scheduled class time.

Students must pay a \$50.00 lab materials fee.

0101	R Apter	Seats (Total: 16)
	TuTh 11:00am - 12:15pm	ANS 1144

ANSC260 Laboratory Animal Management

Credits: 3 Grading Method: Regular

Prerequisite: ANSC101 and ANSC103. Credit only granted for: ANSC260 or ANSC413. Formerly: ANSC413.

A comprehensive course in care and management of laboratory animals. Topics covered include regulations governing the use of animals in research, laboratory animal facility design and management, animal research models, animal health management and husbandry, responsibilities of lab animal workers and career opportunities in the field. Hands-on labs focus on lab animal handling, husbandry and common techniques. Field trips are required, and you must attend a minimum number of field trips which will be held during lab time.

Students must pay a \$50.00 lab materials fee.

0101	Angela Black	Seats (Total: 20)
	MW 10:00am - 10:50am	ANS 0412
	F 8:00am - 12:00pm	Location: TBA Lab

ANSC315 Applied Animal Nutrition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANSC314.

Elements of nutrition, source characteristics and adaptability of various feedstuffs to several classes of livestock. A study of the composition of feeds, nutrient requirements and computerized formulation of economic diets and rations for livestock.

Students must pay a \$50.00 lab materials fee.

0101	Richard Erdman	Seats (Total: 23)	
	TuTh 12:30pm - 1:45pm	ANS 0408	
	Th 8:00am - 8:50am	ANS 0473	Discussion
0102	Richard Erdman	Seats (Total: 23)	
	TuTh 12:30pm - 1:45pm	ANS 0408	
	Th 9:00am - 9:50am	ANS 0473	Discussion
0103	Richard Erdman	Seats (Total: 23)	
	TuTh 12:30pm - 1:45pm	ANS 0408	
	W 9:00am - 9:50am	ANS 0473	Discussion

ANSC327 Molecular and Quantitative Animal Genetics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANSC101, CHEM131, and ANSC103. And BSCI105; or (BSCI170 and BSCI171).

Classical, molecular, and population genetics with specific emphasis on animal systems will be covered. Also, disseminate information on molecular approaches for manipulating genetics at the whole animal level (transgenic and cloning). Other model organisms will be discussed to provide a conceptual framework.

0101	Iqbal Hamza, Li Ma	Seats (Total: 80)	
	TuTh 11:00am - 12:15pm	ANS 0408	

ANSC388 Honors Thesis Research

(Perm req) Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

4501	Instructor: TBA	Seats (Total: 5)	
	Contact instructor or department for details.		

ANSC389 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Contact department for information to register for this course.

ANSC390 Animal Science Undergraduate Teaching Assistant Seminar

(Perm req)

Credits: 2 Grading Method: Regular

*Prerequisite: Permission of instructor.**Seminar course for undergraduate teaching assistants within ANSC.*

0101	Sarah Balcom, R Apter	Seats (Total: 10)
	W 12:00pm - 12:50pm	ANS 1408
	Contact instructor or department for details.	

ANSC399 Special Problems in Animal Science

(Perm req)

Credits: 1-2 Grading Method: Regular,
Pass-Fail, Audit*Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.***Contact department for information to register for this course.**

ANSC435 Experimental EmbryologyCredits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP*Prerequisite: ANSC212. Recommended: Completion of one course in reproductive physiology is recommended. Credit only granted for: ANSC435 or ANSC489M. Formerly: ANSC489M.**Experimental approaches to mammalian embryology with emphasis on domestic livestock systems as applied to research and production systems. Lab will include hands-on experiments and demos of in vitro embryo production, embryo splitting, cell injection and nuclear transfer.*

Students must pay a \$50.00 lab materials fee.

0101	Carol Keefer	Seats (Total: 20)
	Tu 2:00pm - 3:15pm	ANS 0108
	Th 2:00pm - 5:00pm	ANS 0108 Lab

ANSC440 Zoonotic Diseases and ControlCredits: 3 Grading Method: Regular,
Audit, Sat-Fail*Prerequisite: BSCI223, ANSC212, ANSC327, BSCI222, BSCI421, or NFSC430; or students who have taken courses with comparable content may contact the department. Credit only granted for: ANSC440 or ANSC489R. Formerly: ANSC489R.*

Global perspective of foodborne diseases common to animals and man, specifically those caused by farm animal-originated human pathogens (zoonoses) and their control. A selection of important zoonoses and food safety issues will be specifically covered with an emphasis on the principles of zoonotic disease transmission and control, risk factors to humans, and surveillance methods.

0101	Debabrata Biswas	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ANS 0412

ANSC443 Physiology of Lactation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM231, ANSC212, and CHEM232. Recommended: BCHM463.

A comprehensive survey of lactation in laboratory and domestic animals. Other species are discussed where possible. Emphasis will be placed on physiological aspects of milk synthesis and secretion and on the cellular and molecular biology of mammary gland development.

0101	Kasey Moyes	Seats (Total: 20)
	MWF 9:00am - 9:50am	ANS 0402

ANSC453 Animal Welfare and Bioethics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANSC101 and ANSC103; or BSCI106; or (BSCI160 and BSCI161); or permission of instructor. Restriction: Junior standing or higher.

Ethical concerns related to the use of animals in modern society. Historical and philosophical overview of animal welfare and bioethics. Applied ethical discussions on human/animal interrelationships, physical and genetic manipulation, and other current issues associated with the treatment of animals used in food production, research, zoos, and as pets.

0101	William Stricklin	Seats (Total: 45)
	TuTh 4:00pm - 5:15pm	ANS 0412

ANSC489 Current Topics in Animal Science

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Examination of current developments in the animal sciences.

Contact department for information to register for this course.

ANSC489H Current Topics in Animal Science; Discovery of Internships and Careers in Animal Science

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Examination of current developments in the animal sciences.

Prerequisites: ANSC101 and 103 or permission of instructor This course provides students with the opportunity to explore the wide range of careers available in animal science. The first three weeks will be devoted to lectures and in class work related to career development. The following eleven sessions will be devoted to guest speakers introducing their fields, internship opportunities, and various career paths within the profession.

0101	Robert Peters	Seats (Total: 30)
	M 3:00pm - 3:50pm	ANS 0408

ANSC489O Current Topics in Animal Science; Nutritional Aspects of Metabolic Disease

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examination of current developments in the animal sciences.

Prerequisite: ANSC101, CHEM131, and BSC1105 or equivalent. Biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals, and vitamins and their roles and interrelationships in nutrition, metabolism, and diseases in humans and animals. The course will use recommended texts for foundation.

0101	Byung-Eun Kim	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ANS 0402

ANSC627 Molecular and Quantitative Genetics

Credits: 3 Grading Method: Regular,
Audit

Classical, molecular, and population genetics with specific emphasis on animal systems will be covered. Also, disseminate information on molecular approaches for manipulating genetics at the whole animal level (transgenic and cloning). Other model organisms will be discussed to provide a conceptual framework.

0101	Iqbal Hamza, Li Ma	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ANS 0408

ANSC660 Poultry Literature

Credits: 1-4 Grading Method: Regular, Audit

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

Contact department for information to register for this course.

ANSC688J Special Topics; Zoonotic Diseases and Control

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

Prerequisites: BSCI223; recommended NFSC430; or permission of instructor. Lectures will take a global perspective of foodborne diseases common to animals and man, specifically those caused by farm animal-originated human pathogens (zoonoses) and their control. A selection of important zoonoses and food safety issues will be specifically covered with an emphasis on the principles of zoonotic disease transmission and control, risk factors to humans, and surveillance methods.

0101	Debabrata Biswas	Seats (Total: 5)
	TuTh 9:30am - 10:45am	ANS 0412

ANSC6880 Special Topics; Nutritional Aspects of Metabolic Disease

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

Prerequisite: ANSC101, CHEM131, and BSCI105 or equivalent. Biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals, and vitamins and their roles and interrelationships in nutrition, metabolism, and diseases in humans and animals. The course will use recommended texts for foundation.

0101	Byung-Eun Kim	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ANS 0402

ANSC688W Special Topics; Advanced Animal Welfare

Credits: 1-4 Grading Method: Regular,
Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

0101	William Stricklin	Seats (Total: 6)
	TuTh 4:00pm - 5:15pm	ANS 0412

ANSC688Y Special Topics; Lipid Metabolism

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

The hallmark of common diseases is the dysregulation of lipid metabolism, transport, storage, and utilization. Topics will include lipid metabolism, lipid transport, lipid droplet cell biology, brown fat and thermogenesis, "browning" of white fat, and lipids and common diseases such as obesity, fatty liver, diabetes, and cardiovascular disease.

0101	Liqing Yu	Seats (Total: 20)
	MW 10:00am - 11:15am	ANS 0402

ANSC698C Seminar; Recent Advances in Animal and Avian Sciences

Credits: 1 Grading Method: Regular,
Audit

Students are required to prepare papers based upon current scientific publications relating to animal science, or upon their research work, for presentation before and discussion by the class; (1) recent advances; (2) nutrition; (3) physiology; (4) biochemistry.

0101	Richard Kohn	Seats (Total: 30)
	Tu 3:30pm - 5:30pm	ANS 0408

ANSC699 Special Problems in Animal Science

(Perm req)

Credits: 1-2 Grading Method: Regular,
Audit

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

Contact department for information to register for this course.

ANSC799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANSC898**Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.**ANSC899****Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.**ANTH****Anthropology****Spring 2016****ANTH222****Introduction to Ecological and Evolutionary Anthropology**Credits: 4 Grading Method: Regular,
Pass-Fail, Audit CORE: LL General Education: DSNL,
DVUP*Credit only granted for: ANTH220 or ANTH222.**An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.*

Students must pay a \$40.00 materials lab fee.

0101	Barnet Pavao-Zuckerman TuTh 9:30am - 10:45am M 8:00am - 10:00am	Seats (Total: 20) ARM 0135 WDS 0124C Lab
0102	Barnet Pavao-Zuckerman TuTh 9:30am - 10:45am M 11:00am - 1:00pm	Seats (Total: 20) ARM 0135 WDS 0124C Lab
0103	Barnet Pavao-Zuckerman TuTh 9:30am - 10:45am M 2:00pm - 4:00pm	Seats (Total: 20) ARM 0135 WDS 0124C Lab
0104	Barnet Pavao-Zuckerman TuTh 9:30am - 10:45am W 8:00am - 10:00am	Seats (Total: 20) ARM 0135 WDS 0124C Lab
0105	Barnet Pavao-Zuckerman TuTh 9:30am - 10:45am W 11:00am - 1:00pm	Seats (Total: 20) ARM 0135 WDS 0124C Lab

0106	Barnet Pavao-Zuckerman	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	ARM 0135	
	W 2:00pm - 4:00pm	WDS 0124C	Lab

ANTH240 Introduction to Archaeology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

0201	Stephen Brighton	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	MMH 1400	
	F 1:00pm - 1:50pm	WDS 0104	Discussion
0202	Stephen Brighton	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	MMH 1400	
	F 2:00pm - 2:50pm	WDS 0104	Discussion
0203	Stephen Brighton	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	MMH 1400	
	F 3:00pm - 3:50pm	WDS 0104	Discussion

ANTH260 Introduction to Sociocultural Anthropology and Linguistics

Credits: 3 Grading Method: Regular, Audit CORE: SB, D General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

0101	Christina Getrich	Seats (Total: 18)	
	TuTh 9:30am - 10:20am	TWS 0320	
	F 9:00am - 9:50am	WDS 1127	Discussion
0102	Christina Getrich	Seats (Total: 18)	
	TuTh 9:30am - 10:20am	TWS 0320	
	F 10:00am - 10:50am	WDS 1127	Discussion

0103	Christina Getrich TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 18) TWS 0320 WDS 1127	Discussion
0104	Christina Getrich TuTh 9:30am - 10:20am F 12:00pm - 12:50pm	Seats (Total: 18) TWS 0320 WDS 1127	Discussion
0105	Christina Getrich TuTh 9:30am - 10:20am F 1:00pm - 1:50pm	Seats (Total: 18) TWS 0320 WDS 1127	Discussion
0106	Christina Getrich TuTh 9:30am - 10:20am F 2:00pm - 2:50pm	Seats (Total: 18) TWS 0320 WDS 1127	Discussion

ANTH265

Anthropology of Global Health

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

0101	Thurka Sangaramoorthy TuTh 2:00pm - 3:15pm	Seats (Total: 20) WDS 1114
0102	Thurka Sangaramoorthy TuTh 2:00pm - 3:15pm	Seats (Total: 20) WDS 1114
0103	Thurka Sangaramoorthy TuTh 2:00pm - 3:15pm	Seats (Total: 20) WDS 1114

ANTH266

Changing Climate, Changing Cultures

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

0101	L Jen Shaffer	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	SQH 1119

ANTH298I Subversive Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Also offered as THET289I. Credit granted for THET289I AND ANTH298I. Every society has rebels -- those who refuse to conform to the mainstreams rigid rules, aesthetics, and beliefs. We will question why these individuals or groups are considered dangerous and who defines them as such. We will look at how their beliefs and actions fit into a particular socio-historical context and how their actions (or non-actions) drive social change.

0101	Laurie Frederik Meer	Seats (Total: 60)
	MW 2:00pm - 3:15pm	TYD 0117

ANTH338A Special Topics in Study Abroad III; Cultural Anthropology of Spain

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ANTH340 Method and Theory in Archaeology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANTH240. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theory, method, and practice which guides modern anthropological archaeology. Includes research design and execution (from survey through excavation and interpretation), the reconstruction of aspects of past cultures, and the understanding of cultural change and meaning.

0101	Stephen Brighton	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	WDS 0104

ANTH341 Introduction to Zooarchaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Credit only granted for: ANTH298D or ANTH341. Formerly: ANTH298D.

Zooarchaeology is the study of animal remains, especially bones, from archaeological contexts. This course will address both methodology as well as many of the main issues in contemporary zooarchaeology. Zooarchaeology stands at the intersection of a number of social and biological sciences, such as Biology, Osteology, Ecology, History, Anthropology and Economics. We will discuss basic animal osteology and the concepts and practices behind the identification of animal remains from archaeological contexts. We will cover the nature of the data in zooarchaeology, especially issues around using proxy data. Basic analytical methods will also be covered and you will use these methods to work with zooarchaeological data in a small group assignment that will be presented to class at the end of the semester.

0101	Barnet Pavao-Zuckerman	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	TLF B0104

ANTH358A Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Archaeology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358B Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Bio-Anthropology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH358C Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Cultural Anthropology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Individual instruction course: contact department or instructor to obtain section and index numbers.

Contact department for information to register for this course.

ANTH360 Method and Theory in Sociocultural Anthropology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH260. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.

Theoretical approaches and research methods in sociocultural anthropology. Emphasis on current debates, new directions, and their historical antecedents.

0101	Kathryn Lafrenz Samuels	Seats (Total: 35)
	MWF 12:00pm - 12:50pm	WDS 1114

ANTH386**Experiential Learning**

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail

*Recommended: Completion of advanced courses in relevant subfield of anthropology recommended.
Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.*

Contact department for information to register for this course.

ANTH398A**Independent Study; Research Problems**

(Perm req)

Credits: 1-3

Grading Method: Regular

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398B**Independent Study; Modern Tribes of Rome**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398C**Independent Study; The Mediterranean World**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398E**Independent Study; Bodies and Burials**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398H Independent Study; Social Anthropology of Britain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398I Independent Study; Great Kingdoms of Ancient Near East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH398L Independent Study; Social Anthropology of Britain

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent interdisciplinary research and reading in specific areas of anthropology.

Contact department for information to register for this course.

ANTH429D Advanced Special Topics in Biological Anthropology; Exploring Your Family History Anthropologically

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Upper level biological anthropology courses on varying topics derived from new interests of the faculty or the specialties of visiting scholars.

SG91	Marilyn London	Seats (Total: 40)
	Th 9:00am - 11:50am	BLD3 4206

ANTH434 Survey of Technology in Archaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ANTH434, ANTH634.

An introduction to a wide array of technologies that are becoming increasingly accessible for use by archaeologists.

Also offered as ARCH428A. Credit granted for ARCH428A and ANTH434.

0101	Stefan Woehlke, Mark Leone	Seats (Total: 5)
	MW 7:00pm - 8:15pm	ARC 1115

ANTH444 Theories of the Past

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH240. Also offered as: ANTH740. Credit only granted for: ANTH448P, ANTH444, or ANTH740. Formerly: ANTH448P.

The primary purpose is to highlight some of the key achievements made by archaeologists in informing questions of interest to society from 1850 on. Key achievements include how archaeologists understand elements of the past thought to be central to the development of modern society. A secondary purpose is to introduce students to the theories used to understand the place of the past in society and the function of answers to questions thought central to modern social life.

0101	Mark Leone	Seats (Total: 10)
	Tu 3:30pm - 6:00pm	WDS 1130

ANTH450 Theory and Practice of Environmental Anthropology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Junior standing or higher. Also offered as: ANTH650. Credit only granted for: ANTH450 or ANTH650.

An overview of contemporary application of cultural theory and methods to environmental problems. Topics include the use of theories of culture, cognitive approaches, discourse analysis, and political ecology. Case studies from anthropology, other social sciences, humanities, conservation, and environmental history are used to demonstrate the applied value of a cultural-environmental approach.

0101	Michael Paolisso	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	WDS 1131

ANTH452 Anthropology and Climate Change

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH220, ANTH222, ANTH240, or ANTH260. Credit only granted for: ANTH468C, ANTH689C, ANTH452, ANTH652. Formerly: ANTH468C.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	L Jen Shaffer	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 0122

ANTH461 Language as Practice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ANTH461 or ANTH468I. Formerly: ANTH468I.

An introduction to linguistic variation and the construction of identity, relationship, and community membership through language use. The approach emphasizes language as community-based practice and examines the dynamic construction of social relations through linguistic interactions.

0101	Janet Chernela	Seats (Total: 30)
	M 2:00pm - 4:45pm	WDS 1114

ANTH462 Amazon Through Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ANTH468D or ANTH462. Formerly: ANTH468D.

An interdisciplinary course that utilizes film to consider the Amazon basin, its history, peoples, and landscapes through cinematic representations. The course places the films in the context of film history and critical theory. The course takes into consideration the Brazilian, North American, Mexican, European and Argentine creators of the films and their visions of Amazonia, as well as the audiences and markets to which the films are intended.

Also offered as LASC448Q. In addition to credit being granted for ANTH462 or ANTH468D, credit will only be granted for one of these three courses: ANTH462, ANTH468D or LASC448Q.

0101	Janet Chernela	Seats (Total: 20)
	M 6:00pm - 8:45pm	WDS 1114

ANTH463 Health Disparities in the United States

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ANTH468Q, ANTH688Q, ANTH463, ANTH663. Formerly: ANTH468Q.

Powerful economic, political, social, and cultural forces shape who gets sick, what illnesses/diseases they get, how they are treated while seeking care, what treatment options they have, and what their ultimate health outcomes are. The goal of the course is to understand these processes through the lens of critical medical anthropology

0101	Christina Getrich	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH464 Anthropology of Cultural Heritage

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Prerequisite: ANTH260. Credit only granted for: ANTH469T, ANTH689T, ANTH464, ANTH664. Formerly: ANTH469T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

0101	Kathryn Lafrenz Samuels	Seats (Total: 25)
	M 2:00pm - 4:45pm	SQH 1101

ANTH465 Method & Theory in Medical Anthropology and Global Health

Credits: 3 Grading Method: Regular, General Education: DSSP,
Pass-Fail, Audit DVUP

Prerequisite: ANTH260.

Provides a critical perspective to global health that encompasses key political, economic, and cultural factors associated with the nature and magnitude of global health issues such as HIV/AIDS, tuberculosis and malaria, paying particular attention to how poverty and inequalities within and between societies has accelerated current global health challenges. Introduces students to how medical anthropologists have contributed to the debates surrounding the globalization of health.

0101	Thurka Sangaramoorthy	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	WDS 1114

ANTH468F Special Topics in Cultural Anthropology; Introduction to Native American Cultures of the United States

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced courses in varying specialty areas of cultural anthropology that respond to new theoretical developments, faculty research interests, or specialties of visiting scholars.

Also offered as AMST328N and RELS319N. Credit granted for AMST328N, ANTH468F or RELS319N.

0101	L Gordon	Seats (Total: 35)
	M 4:00pm - 6:40pm	PLS 1113

ANTH476 Senior Research

(Perm req)

Credits: 3-4 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.

Contact department for information to register for this course.

ANTH477 Senior Thesis

(Perm req)

Credits: 3-4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.

Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.

Contact department for information to register for this course.

ANTH486 Honors Research

(Perm req)

Credits: 3-4 Grading Method: Regular

Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.

Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.

Contact department for information to register for this course.

ANTH487**Honors Thesis**

(Perm req)

Credits: 3-4 Grading Method: Regular

Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.

Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.

Contact department for information to register for this course.

ANTH491**Applied Urban Ethnography**Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Prerequisite: ANTH260. Also offered as: ANTH617. Credit only granted for: ANTH468B, ANTH491, or ANTH617. Formerly: ANTH468B.

The focus is on the use of applied ethnographic field methods in community assessment research in urban settings. Also, it will extend beyond most ethnographic training in which the emphasis is on being there, and relying predominantly on the classical ethnographic methods of recursive observations, participant observations, and a variety of approaches to interviewing.

0101	Tony Whitehead	Seats (Total: 20)
	Th 2:00pm - 4:45pm	SYM 0215

ANTH498C**Advanced Field Training in Ethnography; Service Learning for Applied Urban Ethnography**Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP,
DVCC

Experience in field research utilizing a variety of ethnographic method of inquiry.

Requires 4 hours/week of off-campus service learning. Can only be taken concurrently with ANTH491 or ANTH617.

0101	Tony Whitehead	Seats (Total: 10)
	Contact instructor or department for details.	

ANTH617**Applied Urban Ethnography: Community Assessment Research**Credits: 3 Grading Method: Regular,
Audit

Also offered as: ANTH491. Credit only granted for: ANTH468B, ANTH617, or ANTH688B.

Explores the use of ethnographic research methods in carrying out community assessment research to inform the design, implementation, and evaluation of culturally and community appropriate community-based initiatives. This course usually has a fieldwork component in a local urban neighborhood.

0101	Tony Whitehead	Seats (Total: 10)
	Th 2:00pm - 4:45pm	SYM 0215

ANTH630 Quantification and Statistics in Applied Anthropology

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in one of the following programs (Anthropology (Doctoral); Anthropology (Master's)).

An intensive overview of key quantitative and statistical approaches used by social scientists in applied ad policy research. This includes nonparametric and parametric statistical approaches. Students utilize statistical software and analyze existing and student-created databases. Anthropological case studies are emphasized.

Restriction: Must be in one of the following programs (Anthropology (Doctoral); Anthropology (Master's)).

0101	Sean Downey	Seats (Total: 20)
	M 5:00pm - 7:45pm	WDS 1102

ANTH634 Survey of Technology in Archaeology

Credits: 3 Grading Method: Regular,
Audit

An introduction to a wide array of technologies that are becoming increasingly accessible for use by archaeologists.

Also offered as ARCH628A. Credit granted for ARCH628A and ANTH634.

0101	Mark Leone	Seats (Total: 5)
	MW 7:00pm - 8:15pm	Location: TBA

ANTH641 Introduction to Zooarchaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ANTH298D, ANTH341 or ANTH641.

Zooarchaeology is the study of animal remains, especially bones, from archaeological contexts. This course will address both methodology as well as many of the main issues in contemporary zooarchaeology. Zooarchaeology stands at the intersection of a number of social and biological sciences, such as Biology, Osteology, Ecology, History, Anthropology and Economics. We will discuss basic animal osteology and the concepts and practices behind the identification of animal remains from archaeological contexts. We will cover the nature of the data in zooarchaeology, especially issues around using proxy data. Basic analytical methods will also be covered and you will use these methods to work with zooarchaeological data in a small group assignment that will be presented to class at the end of the semester.

0101	Barnet Pavao-Zuckerman	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	TLF B0104

ANTH650 Advanced Studies in Theory and Practice of Environmental Anthropology

Credits: 3 Grading Method: Regular,
 Audit

Also offered as: ANTH450. Credit only granted for: ANTH450 or ANTH650.

An overview of contemporary application of cultural theory and methods to environmental problems. Topics include the use of theories of culture, cognitive approaches, discourse analysis, and political ecology. Case studies from anthropology, other social sciences, humanities, conservation, and environmental history are used to demonstrate the applied value of a cultural-environmental approach.

0101	Michael Paolisso	Seats (Total: 7)
	TuTh 2:00pm - 3:15pm	WDS 1131

ANTH652 Anthropology and Climate Change

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Credit only granted for: ANTH468C, ANTH689C, ANTH452, ANTH652. Formerly: ANTH689C.

Human activities now influence ongoing global climatic change, and the outcome remains uncertain for communities and cultures around the world. This interaction between humans and climate provides a rich area of study for anthropologists in an interdisciplinary context. Case studies of historic and contemporary evidence will be used to understand impacts of global climate change and assess opportunities and barriers to successful responses and adaptation.

0101	L Jen Shaffer	Seats (Total: 10)
	TuTh 3:30pm - 4:45pm	JMZ 0122

ANTH655 Introduction to Museum Scholarship

Credits: 3 Grading Method: Regular, Audit

Also offered as: AMST655, HIST610. Credit only granted for: ANTH655, AMST655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Mary Alexander	Seats (Total: 15)
	M 4:00pm - 6:40pm	WDS 1130

ANTH661 Language as Practice

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: ANTH468I, ANTH461, ANTH688I, ANTH661.. Formerly: Previously offered as ANTH688I.

An introduction to linguistic variation and the construction of identity, relationship, and community membership through language use. The approach emphasizes language as community-based practice and examines the dynamic construction of social relations through linguistic interactions.

0101	Janet Chernela	Seats (Total: 10)
	M 2:00pm - 4:45pm	WDS 1114

ANTH663 Health Disparities in the United States

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ANTH469Q, ANTH689Q, ANTH463, ANTH663. Formerly: ANTH689Q.

Powerful economic, political, social, and cultural forces shape who gets sick, what illnesses/diseases they get, how they are treated while seeking care, what treatment options they have, and what their ultimate health outcomes are. The goal of the course is to understand these processes through the lens of critical medical anthropology

0101	Christina Getrich	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	WDS 1130

ANTH664 Anthropology of Cultural Heritage

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ANTH260. Credit only granted for: ANTH469T, ANTH689T, ANTH464, ANTH664. Formerly: ANTH689T.

A global exploration of how the past is remade in the present. Covers the breadth of scope and specific interventions of heritage practice at the global scale, including the social, political, economic, and ethical dimensions of cultural heritage.

0101	Kathryn Lafrenz Samuels	Seats (Total: 10)
	M 2:00pm - 4:45pm	SQH 1101

ANTH665 Method & Theory in Medical Anthropology and Global Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH260.

Provides a critical perspective to global health that encompasses key political, economic, and cultural factors associated with the nature and magnitude of global health issues such as HIV/AIDS, tuberculosis and malaria, paying particular attention to how poverty and inequalities within and between societies has accelerated current global health challenges. Introduces students to how medical anthropologists have contributed to the debates surrounding the globalization of health.

0101	Thurka Sangaramoorthy	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	WDS 1114

ANTH688A Current Developments in Anthropology

(Perm req) Credits: 3 Grading Method: Regular,
Audit

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

Contact department for information to register for this course.

ANTH689A Special Problems in Anthropology

(Perm req) Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANTH689N Special Problems in Anthropology

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Also offered as SOCY709P and GEOG788S. Credit Granted for ANTH689N, GEO G788S. and SOCY709P. A survey of the theory and methods pertaining to social networks."

0101	Christina Prell	Seats (Total: 15)
	W 3:30pm - 6:00pm	ASY 3211

ANTH701 Anthropology Internship Preparation

Credits: 3 Grading Method: Regular,
Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

Contact department for information to register for this course.

ANTH712 Anthropology Internship Analysis

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH722 Ecological Anthropology

Credits: 3 Grading Method: Regular

Restriction: Must be in one of the following programs (Anthropology (Doctoral); Anthropology (Master's)). Credit only granted for: ANTH720 or ANTH722.

An overview of important approaches to ecological anthropology. Population, systems, community, political, behavioral and evolutionary ecology will be examined as they have been applied to a range of anthropological questions. Complexity theory (nonlinear dynamics) and topics in game theory will also be addressed. Students will map the field of ecological anthropology and to assess the strengths and weaknesses of contemporary approaches, methods and theories.

0101	Sean Downey	Seats (Total: 15)
	Th 5:00pm - 7:45pm	WDS 1127

ANTH740 Theories of the Past and Accomplishments of Archaeology

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: ANTH689P or ANTH740. Formerly: ANTH689P.

The primary purpose is to highlight some of the key achievements made by archaeologists in informing questions of interest to society from 1850 on. Key achievements include how archaeologists understand elements of the past thought to be central to the development of modern society. A secondary purpose is to introduce students to the theories used to understand the place of the past in society and the function of answers to questions thought central to modern social life.

Also offered as ANTH448P.

0101	Mark Leone	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	WDS 1130

ANTH788 Internship Research

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 Internship

(Perm req)

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH857 Museum Scholarship Practicum

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: HIST810. Restriction: Permission of Museum Scholarship Program required. Also offered as: HIST811, AMST857. Credit only granted for: ANTH857, AMST857, or HIST811.

Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.

0401	Instructor: TBA	Seats (Total: 2)
Contact instructor or department for details.		

1005	Judith Freidenberg	Seats (Total: 10)
Contact instructor or department for details.		

ANTH898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ANTH899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC Atmospheric and Oceanic Science Spring 2016

AOSC123 Causes and Implications of Global Change

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Also offered as: GEOL123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123. Formerly: METO123.

Responsible policy and decision making on issues related to the global environment requires understanding of the basic scientific issues, relationships between the geophysical and biological sciences, the impacts on regional and global endeavors, and the political manner in which humans respond. This course embodies an integrated introduction to the broad scientific and social aspects of the global change problem.

0101	William Kibikas, Silvia Santos Da Silva, Rachel Pinker	Seats (Total: 20)
	MW 12:00pm - 12:50pm	CSS 2324
	F 9:00am - 9:50am	PLS 1164 Discussion
0102	Rachel Pinker, Silvia Santos Da Silva, William Kibikas	Seats (Total: 20)
	MW 12:00pm - 12:50pm	CSS 2324
	F 10:00am - 10:50am	PLS 1164 Discussion
0103	William Kibikas, Silvia Santos Da Silva, Rachel Pinker	Seats (Total: 20)
	MW 12:00pm - 12:50pm	CSS 2324
	F 11:00am - 11:50am	PLS 1164 Discussion

0104	Rachel Pinker, William Kibikas, Silvia Santos Da Silva MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion
0105	William Kibikas, Silvia Santos Da Silva, Rachel Pinker MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion
0106	Rachel Pinker, Silvia Santos Da Silva, William Kibikas MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion

AOSC200

Weather and Climate

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH110 or MATH115. Recommended: Concurrent enrollment in AOSC201. Formerly: METO200.

Broad survey of the state of knowledge and problems of atmospheric science. Origin and structure of the atmosphere, meteorological observations, weather maps, forecasting, satellites, energetics, wind, general circulation, storms, severe weather, climate change, air pollution.

*A Marquee Science and Technology Course designed for Non-Science Majors:
<http://www.marqueecourses.umd.edu/>* Click here for more Marquee course information.*

0101	Timothy Canty TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) CSS 2324 CSS 2324	Discussion
0102	Timothy Canty TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 JMP 2202	Discussion
0103	Timothy Canty TuTh 12:30pm - 1:45pm W 3:00pm - 3:50pm	Seats (Total: 30) CSS 2324 PHY 1219	Discussion

0104	Timothy Canty TuTh 12:30pm - 1:45pm W 1:00pm - 1:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion
0201	Timothy Canty TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 CCC 1111	Discussion
0202	Timothy Canty TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 30) CSS 2324 CHM 0127	Discussion
0203	Timothy Canty TuTh 2:00pm - 3:15pm M 1:00pm - 1:50pm	Seats (Total: 30) CSS 2324 CSS 2416	Discussion
0204	Timothy Canty TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 30) CSS 2324 EGR 0108	Discussion

AOSC201

Weather and Climate Laboratory

Credits: 1 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Corequisite: AOSC200. Formerly: METO201.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, use of the Internet, forecasting practice and climate modeling.

0101	Sarah Benish M 2:00pm - 3:50pm	Seats (Total: 20) CSS 3426	Lab
0102	Sarah Benish W 2:00pm - 3:50pm	Seats (Total: 20) CSS 3426	Lab
0103	Ashley Wheeler F 8:00am - 9:50am	Seats (Total: 20) CSS 3426	Lab
0104	Katherine Junghenn M 12:00pm - 1:50pm	Seats (Total: 20) CSS 3426	Lab

0105	Katherine Junghenn	Seats (Total: 20)	
	F 12:00pm - 1:50pm	CSS 3426	Lab
0106	Phillip Stratton	Seats (Total: 20)	
	F 2:00pm - 3:50pm	CSS 3426	Lab
0107	Antonio Larios	Seats (Total: 20)	
	Tu 3:30pm - 5:20pm	CSS 3426	Lab
0108	Antonio Larios	Seats (Total: 20)	
	W 12:00pm - 1:50pm	CSS 3426	Lab

AOSC347

Computing and Data Analysis: Deciphering Climate Change Clues

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH140. Recommended: Familiarity with basic descriptive statistics. Credit only granted for: AOSC347 or AOSC358L. Formerly: AOSC358L.

A comprehensive introductory course designed to prepare students to identify, interpret, and visualize Earth's climate variations observed in the past and projected into the future. The class emphasizes real-world applications, providing students with essential hands-on experience using MATLAB for data analysis and visualization, developing analytical skills for observational and modeling data, and performing virtual experiments to distinguish data contributing factors. Students will gain an understanding of the scientific issues concerning the modern global warming debate on detection and attribution including: signal vs noise, trend vs periodicity, natural vs anthropogenic forcing, local vs remote response, mean vs extreme changes, and accuracy vs uncertainty.

0101	Xin-Zhong Liang	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm	CSS 3426	

AOSC401

Climate Dynamics and Earth System Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AOSC400 or AOSC200; or permission of instructor. Formerly: METO401.

The global weather and climate system; the natural variability of the atmosphere-ocean-biosphere; carbon cycle and biogeochemistry. Potential human effects: greenhouse effects, deforestation, acid rain, ozone depletion, nuclear winter. Social, political and economic effects of changes in global environment. Policy options.

0101	Menglin Jin	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSS 2428

AOSC424 Remote Sensing of the Atmosphere and Ocean

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141); or permission of instructor.

Many of the properties of the atmosphere, ocean, and land surface are most easily observed from satellite remote sensing. This course will provide students with a hands-on introduction to a variety of passive and active sensing techniques and sensors observing our changing environment. Topics include: orbital dynamics and electromagnetic properties of the atmosphere and surface; atmospheric emission characteristics and scattering; chemical composition and spectroscopy; temperature retrievals; detection and retrieval of aerosol, cloud and rain; ocean surface properties; sea surface temperature and color; active sensing of wind stress, sea level, and internal waves; time-dependent gravity; properties of vegetation and ice.

0101	Derrick Lampkin	Seats (Total: 25)
	MW 2:00pm - 3:15pm	CSS 2416

AOSC432 Dynamics of the Atmosphere and Ocean

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AOSC431. Corequisite: MATH246. Credit only granted for: AOSC432, METO432, or AOSC632. Formerly: METO432.

Equations of motion and their approximation, scale analysis for the atmosphere and the ocean. Conservation properties. Fluid motion in the atmosphere and oceans. Geostrophic/balanced and ageostrophic/unbalanced motion. Circulation, vorticity, and potential vorticity. Introduction to the boundary layer.

0101	Kayo Ide	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSS 2416
AM01	Kayo Ide	Seats (Total: 0)
	TuTh 9:30am - 10:45am	CSS 2416

AOSC434 Air Pollution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: MATH241; or permission of CMNS-Atmospheric & Oceanic Science department.
Formerly: METO434.*

Production, transformation, transport and removal of air pollutants. The problems of photochemical smog, the greenhouse effect, stratospheric ozone, acid rain and visibility. Analytical techniques for gases and particles.

0101	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 25) CSS 2416
AM01	Russell Dickerson TuTh 2:00pm - 3:15pm	Seats (Total: 0) CSS 2416

AOSC472 Mesoscale Meteorology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: AOSC432, AOSC600, AOSC610, or AOSC470. Restriction: Non-degree-seeking students require the permission of the instructor. Also offered as: AOSC602. Credit only granted for: AOSC472 or AOSC602.

An introduction to mesoscale meteorology including the topics of mesoscale approximations, aspects of fronts and frontogenesis theory, piecewise potential vorticity inversion, mesoscale waves and instability, orographic mesoscale phenomena, isolated convection, mesoscale convective systems, and tropical cyclones.

0101	Scott Rudlosky MW 4:45pm - 6:00pm	Seats (Total: 10) CSS 3400
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AOSC494 Atmospheric and Oceanic Science Seminar

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in AOSC431 and AOSC432.

Exposure to a wide range of contemporary topics in atmospheric, oceanic and climate sciences, to foster research interests and promote critical thinking through the weekly AOSC departmental seminar series.

0101	Daryl Kleist Th 3:30pm - 4:45pm	Seats (Total: 20) CSS 2400
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AOSC498**Senior Research Project II**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

The project will be based on the research or development plan created i AOSC493. It may be completed with the approval of a faculty advisor in conjunction with an internship. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

AOSC499**Special Problems in Atmospheric Science**

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Research or special study in the field of meteorology and the atmospheric and oceanic sciences.

Contact department for information to register for this course.

AOSC602**Mesoscale Meteorology**

Credits: 3

Grading Method: Regular,
Audit

Mesoscale approximations, cyclones and fronts, quasi- versus semi-geostrophic theory, piece-wise PV inversion, waves and instability, isolated convection, organized convective systems, numerical modeling and convective parameterization.

0101	Scott Rudlosky	Seats (Total: 15)
	MW 4:45pm - 6:00pm	CSS 3400

AOSC611**Dynamics of the Atmosphere and Oceans II**

Credits: 3

Grading Method: Regular,
Audit

Formerly: METO611.

Waves and instabilities in the atmosphere and the ocean. Gravity, Rossby, coastal and equatorial waves. Flow over topography. Dynamic instabilities including barotropic, baroclinic, inertial, and instabilities of the coupled ocean-atmosphere system. Stationary waves and multiple equilibria.

0101	James Carton	Seats (Total: 25)
	MWF 11:00am - 11:50am	CSS 2416
AM01	James Carton	Seats (Total: 0)
	MWF 11:00am - 11:50am	CSS 2416

AOSC615 Advanced Methods in Data Assimilation for the Earth Sciences

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: AOSC614; or permission of instructor.

An overview of the most important methods of data assimilation. Theory, techniques and strategies of these methods, as well as their possible drawbacks. Hands-on experimentation with variational and other data assimilation systems.

0101	Kayo Ide	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	PLS 1164

AOSC617 Atmospheric and Oceanic Climate

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: AOSC610; or permission of instructor. Formerly: METO617.

The general circulation of the atmosphere and oceans, historical perspective, observations, and conceptual models; wind-driven and thermohaline circulation of the oceans. Seasonal cycle and monsoon circulations; interannual to interdecadal climate variability; climate change.

0101	Sumant Nigam	Seats (Total: 20)
	MWF 9:00am - 9:50am	CSS 2416
AM01	Sumant Nigam	Seats (Total: 0)
	MWF 9:00am - 9:50am	CSS 2416

AOSC621 Physics and Chemistry of the Atmosphere II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MATH462; or students who have taken courses with comparable content may contact the department. Formerly: METO621.

Spectroscopy; basic concepts in radiative transfer and atmospheric chemistry; photolysis rates for atmospheric molecules.

0101	Xin-Zhong Liang	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSS 0201

AM01	Xin-Zhong Liang	Seats (Total: 0)
	TuTh 9:30am - 10:45am	CSS 0201

AOSC630 Statistical Methods in Meteorology and Oceanography

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: STAT400; or students who have taken courses with comparable content may contact the department. Formerly: METO630.

Parametric and non-parametric tests; time series analysis and filtering wavelets. Multiple regression and screening; neural networks. Empirical orthogonal functions and teleconnections. Statistical weather and climate prediction, including MOS, constructed analogs. Ensemble forecasting and verification.

0101	Eugenia Kalnay	Seats (Total: 0)	
	W 12:00pm - 1:00pm	CSS 3400	
	W 1:00pm - 2:30pm	CSS 3400	
AM01	Eugenia Kalnay	Seats (Total: 0)	
	W 12:00pm - 1:00pm	CSS 3400	
	W 1:00pm - 2:30pm	CSS 3400	Discussion

AOSC658E Special Topics in Meteorology; Data Assimilation

Credits: 3 Grading Method: Regular,
Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

Contact department for information to register for this course.

AOSC658R Special Topics in Meteorology; Advanced Studies in Air Pollution

Credits: 1-3 Grading Method: Regular,
Audit

Various special topics in meteorology are given intensive study. The topic of concentration varies, from semester to semester and depends on student and faculty interests. Often, specialists from other institutions are invited to the campus on a visiting lectureship basis to conduct the course.

0101	Russell Dickerson	Seats (Total: 3)
	Contact instructor or department for details.	

AOSC661**Sustainability Modeling**

Credits: 3

Grading Method: Regular

Suitable for students who are concerned with sustainability issues, have little or no background in computational modeling, but would like to understand what modeling can do to help solve sustainability problems. By exploring a variety of contemporary societal issues (e.g., water scarcity, biodiversity loss, energy dependence), you will be introduced to modeling approaches for simulating and quantitatively understanding sustainability variables (inputs and outputs), and using modeling towards the design of policy measures that can be implemented as a response to such issues.

0101	Fernando Miralles-Wilhelm	Seats (Total: 20)
	MW 4:30pm - 5:45pm	PLS 1117
AM01	Fernando Miralles-Wilhelm	Seats (Total: 0)
	MW 4:30pm - 5:45pm	PLS 1117

AOSC684**Climate System Modeling**

Credits: 3

Grading Method: Regular,
Audit

Fundamentals in building computer models to simulate the components of the climate system: atmosphere, ocean ice, land-surface, terrestrial and marine ecosystems, and the biogeochemical cycles embedded in the physical climate system, in particular, the carbon cycle. Simple to state-of-the-art research models to tackle problems such as the Daisy World, El Nino and global warming.

0101	Ning Zeng	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSS 2428
AM01	Ning Zeng	Seats (Total: 0)
	TuTh 9:30am - 10:45am	CSS 2428

AOSC798**Directed Graduate Research**

Credits: 1-3

Grading Method: Sat-Fail

Contact department for information to register for this course.

AOSC818**Frontiers in Atmosphere, Ocean, Climate, and Synoptic Meteorology Research**

Credits: 1

Grading Method: Sat-Fail

A broad range of topics in the contemporary sciences of atmosphere, ocean, climate and synoptic meteorology are covered.

0101	Daryl Kleist	Seats (Total: 5)
	Th 3:30pm - 4:30pm	CSS 2400

AOSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

AOSC899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Spring 2016

ARAB101 Elementary Arabic I

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to modern standard Arabic in both its spoken and written form. Equal emphasis on all four skill areas: speaking, listening, reading, and writing.

Contact department for information to register for this course.

ARAB105 Elementary Modern Standard Arabic III-IV

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

*Prerequisite: ARAB104; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be a fluent/native speaker of Arabic.*

Continuation of ARAB104, developing further linguistic proficiency in Standard Arabic, both written and formal spoken. Covers an extended range of situation-based texts and topics that build vocabulary, grammar, general communicative competence and cultural awareness.

0101	Hebatalla Salem	Seats (Total: 15)
	MWF 10:00am - 11:50am	JMZ 3122
0201	Lutf Alkebsi	Seats (Total: 15)
	MWF 10:00am - 11:50am	SQH 1123
0301	Lutf Alkebsi	Seats (Total: 15)
	MWF 12:00pm - 1:50pm	SQH 1123

ARAB205**Intermediate Modern Standard Arabic II**

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

*Prerequisite: ARAB204; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be a fluent/native speaker of Arabic.*

Continuation of ARAB204, with exposure to a wide range of Arabic texts from different domains. Focus on vocabulary, more complex grammatical forms, and a better understanding of the formal aspects of using MSA as well as the cultural aspects of using the language.

0101	Hebatalla Salem, Dina El-Hefnawy	Seats (Total: 15)
	MW 12:00pm - 1:50pm	SQH 1101
	F 12:00pm - 1:50pm	SQH 1119
0201	Dina El-Hefnawy, Hebatalla Salem	Seats (Total: 15)
	MWF 10:00am - 11:50am	SQH 1111

ARAB207**Elementary Egyptian Colloquial Arabic IV**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARAB206; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Arabic.

Further develops listening and speaking skills in Egyptian Colloquial Arabic, extending range of contexts where it merges with Modern Standard Arabic. Some reading in Arabic.

0101	Sayed Elsisí	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	JMZ 2117

ARAB305**Advanced Modern Standard Arabic II**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARAB304; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Arabic.

Further advanced grammar, reading, writing, speaking in Arabic; study of current issues within the Arab World.

0101	Zein El-Amine	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	SQH 1123
	F 2:00pm - 2:50pm	SQH 1123 Lab
0201	Zein El-Amine	Seats (Total: 15)
	MW 3:00pm - 4:15pm	SQH 1123
	F 3:00pm - 3:50pm	SQH 1123 Lab

ARAB399A Independent Study In Arabic; Practicum in Arabic

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member on the Department of Arabic Studies. To be planned during semester preceding registration.

This practicum correlates with ARAB499A.

2170	Hebatalla Salem	Seats (Total: 5)
	Contact instructor or department for details.	

ARAB401 Readings in Arabic Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARAB305; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic.

A survey of Modern Arabic literature is given through a range of selected texts. Texts are studied as literature with constant reference to the social, cultural and political contexts in which they were written. Taught in Arabic.

0101	Zein El-Amine	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 0103

ARAB499A Special Topics in Arabic Studies; Arab Cultures, Societies and Ideologies

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

For Flagship Capstone students only. In depth discussions of contemporary sociocultural discourses in Egypt and Morocco, and training in Egyptian and Moroccan dialects. Taught in Arabic.

0101	Hebatalla Salem	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	SQH 2112

ARAB499M Special Topics in Arabic Studies; Egyptian Cinema and the Making of Modern Egypt

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305 or permission by department. Taught in Arabic.

0101	Sayed Elsisi	Seats (Total: 15)
	MW 3:30pm - 4:45pm	JMZ 1124

ARAB499T Special Topics in Arabic Studies; Contemporary Arab Political Thought

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Prerequisite: ARAB305 or permission by department.

0101	Lutf Alkebsi	Seats (Total: 15)
	TuTh 9:30am - 10:45am	JMZ 2123

ARCH Architecture Spring 2016

ARCH101 Foundations in Architecture

Credits: 1 Grading Method: Regular,
Pass-Fail

Prerequisite: UNIV100; or permission of ARCH-Architecture Program. Restriction: Freshman standing.

To pursue any field of knowledge one must first begin with the basics. By learning the "language" of architecture one can explore the foundations of the architectural profession through interactive and experiential learning.

0101	Marisa Allen	Seats (Total: 18)
	W 9:00am - 10:50am	ARC 1127

0102	Marisa Allen	Seats (Total: 18)
	W 11:00am - 12:50pm	ARC 1127

ARCH226 History of World Architecture II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture

0101	Cynthia Field	Seats (Total: 150)
	TuTh 2:00pm - 3:15pm	ARC 0204

ARCH271 People, Planet, and Profit: Building Sustainable Places

Credits: 3 Grading Method: Regular General Education: DSSP

An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.

Also offered as RDEV250. Credit granted for ARCH271 or RDEV250.

0101	Heidi Bulich	Seats (Total: 140)
	Tu 7:00pm - 9:40pm	ARC 0204

ARCH289I Sustainability at College Park

Credits: 3 Grading Method: Regular, CORE: IE General Education: DSNS,
Pass-Fail, Audit DSSP, SCIS

Explore the ways and the degrees to which UMCP campus master planning and operations incorporate principles of sustainability including smart growth, LEED and other building rating systems, higher education rating systems, sustainable agriculture and transportation planning. Among other subjects, students will learn about the Campus and the City of College Park and survey the relationship between local, national and global sustainability concerns. Students will learn about the University's Climate Action Plan and the roles, and extent to which, the campus Office of Sustainability and other campus units are helping develop a carbon-neutral and resource-efficient campus infrastructure and will tour selected facilities on campus.

0101	Ralph Bennett	Seats (Total: 120)
	TuTh 5:00pm - 6:15pm	ARC 0204

ARCH386

Experiential Learning

(Perm req)

Credits: 3-6

Grading Method: Regular,
Pass-Fail

General Education: DSSP

Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.

Learning experience tied to internship of specified duration with targeted learning outcomes.

0101	Michael Brick	Seats (Total: 10)
	Contact instructor or department for details.	

ARCH401

Architecture Studio II

(Perm req)

Credits: 6

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ARCH400. Restriction: Must be in Architecture (B.S.) program.

Continuation of ARCH 400 with introduction to building typology, urban and contextual issues, design of the vertical surface, and architectural interiors.

Restricted to ARCH majors.

0101	Michael Abrams	Seats (Total: 54)
	MWF 2:00pm - 6:00pm	Location: TBA Lab

ARCH403

Architecture Studio IV

Credits: 6

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSOC

Prerequisite: Minimum grade of C- in ARCH402. Restriction: Must be in Architecture (B.S.) program.

Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.

Restricted to ARCH majors.

0101	James Tilghman	Seats (Total: 56)	
	MWF 2:00pm - 6:00pm	Location: TBA	Lab

ARCH405 Graduate Architecture Design Studio II

Credits: 6 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in ARCH404. Restriction: Must be in Architecture (Master's) program.

Architectural design studio with emphasis on building and facade typologies, the development of architectural promenade and sequence, public and/or civic infill buildings dependent upon the architectural promenade, and urban housing types of varying densities. The architect's obligations to urban context are explored in many dimensions including historical, typological, and physical. Offered spring only.

0101	Michael Ambrose	Seats (Total: 12)	
	MWF 2:00pm - 6:00pm	Location: TBA	

ARCH407 Graduate Architecture Design IV

Credits: 6 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in ARCH406. Restriction: Must be in Architecture (Master's) program.

Studio problems and theories concentrating on urbanism and urban design techniques. Issues and sites range from high-density urban in-fill to suburban and greenfield development in American and other contexts. Studio theories explore such topics as Contextualism, Neo-Traditional design, Transit Oriented Development, density, sustainable development, building typology, and street design.

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE):
<http://ter.ps/iamFEARLESS> Click here for more information on the Fearless Ideas Courses.*

0101	Jana Vandergoot	Seats (Total: 12)	
	MWF 2:00pm - 6:00pm	Location: TBA	

ARCH411 Technology II

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARCH410. Corequisite: ARCH401. Restriction: Must be in Architecture (B.S.) program.

Second course in a four course sequence. Building construction processes and terminology; use and performance characteristics of primary building materials; principles of structural behavior related to the building systems; equilibrium and stability, stiffness and strength, types of stress, distribution of force and stress, resolution of forces, reactions, bending moments, shear, deflection, buckling.

Restricted to ARCH majors.

0101	Michael Binder	Seats (Total: 66)
	TuTh 9:00am - 10:45am	ARC 0204

ARCH413 Architecture Technology IV

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARCH412. Corequisite: ARCH403. Restriction: Must be in Architecture (B.S.) program.

Final course in a four course sequence. Theory, quantification, and architectural design applications for HVAC, water systems, fire protection electrical systems, illumination, signal equipment, and transportation systems.

Restricted to ARCH majors.

0101	Carl Bovill	Seats (Total: 66)
	TuTh 11:00am - 12:45pm	ARC 0204

ARCH419 Independent Studies in Architectural Technology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

2901	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

ARCH420 History of American Architecture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHS

Prerequisite: ARCH221; or permission of ARCH-Architecture Program.

American architecture from the late 17th to the 21st century.

0101	Isabelle Gournay	Seats (Total: 154)
	TuTh 9:30am - 10:45am	ARC 1125

ARCH423 History of Roman Architecture

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARCH-Architecture Program.

Survey of Roman architecture from 500 B.C. To A.D. 325.

0101	Robert Vann	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	ARC 1103

ARCH427 Theories of Architecture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARCH426; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Survey of architectural theories - theories of architectural design, representation and urban design from antiquity to the present day.

0101	Cynthia Field	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	ARC 1111

ARCH428A Selected Topics in Architectural History; Survey of Technology in Archaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architectural History

Also offered as ANTH634. Credit granted for ARCH628A and ANTH634.

0101	Mark Leone, Stefan Woehlke	Seats (Total: 5)
	MW 7:00pm - 8:15pm	ARC 1115

ARCH428B Selected Topics in Architectural History; History of British Architecture, Urbanism and Landscape

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architectural History

Contact department for information to register for this course.

ARCH428G Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architectural History

Also offered as ARCH628G. Credit granted for ARCH428G or ARCH628G.

0101	Robert Vann	Seats (Total: 19)
	TuTh 2:00pm - 3:15pm	ARC 1119

ARCH430 Measuring Sustainability in Architecture

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail, Audit

Credit only granted for: ARCH430 or ARCH418M. Formerly: ARCH418M.

Studies metrics of sustainability as included in rating standards, including LEED. All students will take the LEED GA test.

0101	Sarah Buffaloe	Seats (Total: 40)
	Tu 7:00pm - 9:40pm	ARC 1103

ARCH445 Visual Analysis of Architecture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Study of visual principles of architectural and urban precedents through graphic analysis. Exercises include on-site observation, documentation and analysis. Focuses on the development of an architect's sketchbook as a tool for life-long learning.

0101	Michael Ezban	Seats (Total: 15)
	MW 11:00am - 12:15pm	ARC 1119

ARCH460 Site Analysis and Design

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARCH-Architecture Program.

Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form.

Contact department for information to register for this course.

ARCH461

Sustainability in Architecture

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARCH-Architecture Program. Credit only granted for: ARCH418S or ARCH461. Formerly: ARCH418S.

Strategies of sustainability as related to the broader context of architectural problem solving.

0101	Carl Bovill	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	ARC 1105

ARCH470

Computer Applications in Architecture

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: ARCH400; or permission of ARCH-Architecture Program. Restriction: Must be in Architecture (B.S.) program.

Introduction to computer utilization, with emphasis on architectural applications.

Restricted to ARCH majors.

0101	Brent White	Seats (Total: 23)
	Tu 7:00pm - 9:30pm	ARC 1115
	Th 7:00pm - 8:15pm	ARC 1115

ARCH472

Building Information Modeling Communication and Collaboration

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in a major in ARCH-Architecture Program; or must be in the Construction Project Management Minor. Credit only granted for: ARCH678I or ARCH472. Formerly: ARCH678I.

Building Information Modeling is explored as it pertains to collaboration and communication in the design and construction of buildings and building systems. Practical and empirical learning using BIM software and case studies of real world projects and construction scenarios.

0101	Kristen Ambrose	Seats (Total: 15)
	M 9:00am - 11:40am	ARC 1115

ARCH478B Selected Topics in Architecture; Architecture in Italy: History and Preservation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH478C Selected Topics in Architecture; Careers in Architecture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architecture

0101	Albert Rubeling	Seats (Total: 30)
	Tu 4:00pm - 6:30pm	ARC 1111

ARCH478G Selected Topics in Architecture; The Villa and the Garden

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected Topics in Architecture

Contact department for information to register for this course.

ARCH481 The Architect in Archaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARCH-Architecture Program.

The role of the architect in field archaeology and the analysis of excavating, recording, and publishing selected archaeological expeditions.

0101	Robert Vann	Seats (Total: 30)
	Tu 7:00pm - 9:30pm	Location: TBA

Topical Studio

Restricted to ARCH, URPD or ARCP majors.

0101	Hooman Koliji, David Cronrath	Seats (Total: 40)	
	MWF 2:00pm - 6:00pm	Location: TBA	Lab

Selected Topics in Architectural History; Survey of Technology in Archaeology

Graduate Selected Topics in Architectural History

0101	Mark Leone	Seats (Total: 5)
	MW 7:00pm - 8:15pm	Location: TBA

Selected Topics in Architectural History; Housing Seminar

Graduate Selected Topics in Architectural History

Contact department for information to register for this course.

Selected Topics in Architectural History; Greek and Roman Cities of Southern Turkey

Graduate Selected Topics in Architectural History

Also offered as ARCH428G. Credit granted for ARCH428G or ARCH628G.

0101	Robert Vann	Seats (Total: 19)
	TuTh 2:00pm - 3:15pm	ARC 1119

Seminar in the History of Modern Architecture

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ARCH427; or permission of ARCH-Architecture Program.

Advanced investigation of historical problems in modern architecture.

0101	Isabelle Gournay	Seats (Total: 19)
	TuTh 2:00pm - 3:15pm	ARC 1127

ARCH654 Urban Development and Design Theory

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of ARCH-Architecture Program.

Advanced investigation into the history, and practice of urban design, planning, and development.

0101	Matthew Bell	Seats (Total: 30)
	TuTh 9:30am - 10:45am	ARC 1101

ARCH678 Selected Topics in Architecture

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

Restricted to ARCH majors only.

Contact department for information to register for this course.

ARCH678W Selected Topics in Architecture; ULI Seminar

Credits: 3 Grading Method: Regular,
Audit

Graduate Selected Topics in Architecture.

0101	Matthew Bell	Seats (Total: 5)
	Contact instructor or department for details.	

ARCH678Z Selected Topics in Architecture; Sensing Architecture: Body and Place

Credits: 3 Grading Method: Regular,
Audit

Graduate Selected Topics in Architecture.

Seminar investigates issues of perception and the senses in an approach understanding the built environment. Themes from the readings are centered on a sensuous approach to place making in the environment. Lectures, seminar discussions of seminal texts, research, presentations, and a series of creative projects that actively engage the senses.

0101	Peter Noonan	Seats (Total: 15)
	Th 7:00pm - 9:40pm	ARC 1123

ARCH679 Independent Studies in Architecture; Independent Study in Architecture

Credits: 1-4 Grading Method: Regular,
Audit

Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.

Contact department for information to register for this course.

ARCH797 Thesis Proseminar

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ARCH601.

Directed research and preparation of thesis program.

0101	Michael Ambrose	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	ARC 1125

ARCH798 Thesis in Architecture

(Perm req) Credits: 3 Grading Method: Regular

Complements the research of ARCH 799, with presentation of the design research to student's thesis committee.

Contact department for information to register for this course.

ARCH799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Development of master's thesis.

Restricted to ARCH majors only.

Contact department for information to register for this course.

AREC240

Introduction to Economics and the Environment

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: ECON200, AREC240, or AREC250.

Costs and social impacts of pollution and human crowding in the modern environment. The economic, legal and institutional causes of these problems. Public policy approaches to solutions and the costs and benefits of alternative solutions.

0101	Roberton Williams	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	TWS 0320
	M 1:00pm - 1:50pm	HBK 0103 Discussion
0102	Roberton Williams	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	TWS 0320
	M 2:00pm - 2:50pm	HBK 0103 Discussion

AREC326

Intermediate Applied Microeconomics

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or AREC250; and ECON201; and (MATH220, MATH140, or MATH130).

Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Formerly: AREC489M.

Deepens and broadens your ability to apply rigorous economic analysis skills to a broad range of problems.

0101	Daniel Voica	Seats (Total: 45)
	TuTh 9:30am - 10:45am	HBK 0103

AREC365

World Hunger, Population, and Food Supplies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.

0101	Howard Leathers	Seats (Total: 286)
	MWF 9:00am - 9:50am	ARC 0204

AREC382 Computer-Based Analysis in Agricultural and Resource Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: STAT100 or MATH111; or students who have taken courses with comparable content may contact the department. And AREC240, ECON200, or AREC250; or students who have taken courses with comparable content may contact the department. Credit only granted for: AREC182 or AREC382. Formerly: AREC182.

Analysis of economic data using computer spreadsheets. Exercises include analyses of forest land shares, farmer willingness to pay, farm production planning, fisheries management, corn prices, and index numbers. Analyses features use of cell formulas, spreadsheet functions, Excel's Data Analysis Tool and Solver. This is a lab course featuring experimental learning.

0101	Anna Alberini	Seats (Total: 30)
	MW 1:00pm - 2:15pm	PLS 1129

AREC386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

AREC388 Honors Thesis Research

(Perm req)

Credits: 3-6 Grading Method: Regular

Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0401	Robert Chambers	Seats (Total: 5)
	Contact instructor or department for details.	
3103	Kenneth Leonard	Seats (Total: 5)
	Contact instructor or department for details.	

3104	Instructor: TBA	Seats (Total: 5)
Contact instructor or department for details.		

AREC399 Special Problems

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.

Contact department for information to register for this course.

AREC405 Economics of Production

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON326 or ECON306; or students who have taken courses with comparable content may contact the department. Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Environmental Science & Policy-Env Economics; Agricultural and Resource Economics: Agribusiness) ; or must be minors in Agribusiness Economics (#AG01), Environmental Economics and Policy (#AG02), or Resource and Agricultural Policy in Economic Development (#AG03).

The use and application of production economics in analysis of firm and policy decisions. Production functions, cost functions, multiple product and joint production, and production processes through time.

0101	Robert Chambers	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	HBK 0103

AREC427 Economics of Commodity Marketing Systems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON326 or ECON306; or students who have taken courses with comparable content may contact the department. Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Environmental Science & Policy-Env Economics; Agricultural and Resource Economics: Agribusiness) ; or must be minors in Agribusiness Economics (#AG01), Environmental Economics and Policy (#AG02), or Resource and Agricultural Policy in Economic Development (#AG03).

Basic economic theory as applied to the marketing of agricultural commodities. Current developments affecting market structure including contractual arrangements, cooperative marketing, vertical integration, and governmental policies.

0101	Howard Leathers	Seats (Total: 30)
	MWF 10:00am - 10:50am	ARC 1101

AREC435 Commodity Futures and Options

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: (BMGT230; or ECON321); and (ECON306; or ECON326). Or students who have taken courses with comparable content may contact the department. Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Environmental Science & Policy-Env Economics; Agricultural and Resource Economics: Agribusiness) ; or must be minors in Agribusiness Economics (#AG01), Environmental Economics and Policy (#AG02), or Resource and Agricultural Policy in Economic Development (#AG03).

The economics and institutional features of commodity futures and options markets. Students will develop a basic understanding of the underlying price relationships between cash and futures markets and will apply this information to business risk management decision making.

0101	Dale Johnson	Seats (Total: 40)
	MW 3:30pm - 4:45pm	HBK 0103

AREC456 Energy and Environmental Economics

Credits: 3 Grading Method: Regular

Prerequisite: ECON326 or ECON306. Restriction: Must be in a major within the AGNR-Agricultural & Resource Economics department. Credit only granted for: AREC456 or AREC489J. Formerly: AREC489J.

Economic theory and empirical methods are used to study problems of energy, the environment, and the economy. It examines the extraction, production, and use of energy and market institutions and regulatory approaches used to correct market failures. Topics covered include: oil and natural gas markets, management and design of electricity markets, renewable energy, non-market valuation , climate change, and transportation policies.

0101	Sebastien Houde	Seats (Total: 70)
	TuTh 11:00am - 12:15pm	TWS 0320

AREC489L Special Topics in Agricultural and Resources Economics; Agricultural Water Quality, Policy and Legal Issues

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Ashley Ellixson	Seats (Total: 50)
	TuTh 9:30am - 10:45am	TYD 1101

AREC489N Special Topics in Agricultural and Resources Economics; Economics of Local Agriculture, Food Hubs

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

AREC610 Microeconomic Applications in Agricultural and Resource Markets

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON603.

Applications of graduate level microeconomic analysis to the problems of agricultural and natural resource production and distribution including demand for agricultural output, the nature of agricultural supply decisions, decision making under uncertainty, valuation of natural resources, and exploitation of natural resources.

0101	Robert Chambers	Seats (Total: 25)
	TuTh 9:30am - 10:45am	SYM 0209
	Tu 3:30pm - 5:00pm	KEY 0121 Discussion

AREC624 Applied Econometrics II

Credits: 4 Grading Method: Regular,
Audit

Prerequisite: AREC623.

Variations of the standard linear model, simultaneous equations estimation, nonlinear regression, nonlinear simultaneous equations estimation, static and dynamic panel data models, errors in variables, Hausman tests, discrete choice models such as conditional multinomial and mixed logit models, latent class models, semi-parametric estimation, varying parameter models, unobserved variables, time series models, and model selection procedures.

0101	Anna Alberini	Seats (Total: 30)
	MW 10:00am - 12:30pm	SYM 0215
	F 10:00am - 12:00pm	SYM 0115 Discussion

AREC699 Special Problems in Agricultural and Resource Economics

(Perm req)

Credits: 1-2 Grading Method: Regular,
Audit

Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.

Contact department for information to register for this course.

AREC783 Environmental Taxation and Regulation

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON603 and ECON604; and graduate-level econometrics. Credit only granted for: AREC783 or AREC869W. Formerly: AREC869W.

The economics of policies to address environmental externalities. Specific topics include the theory of public goods and externalities, cost-benefit and cost-effectiveness analysis of environmental regulations, regulatory instrument choice under uncertainty, environmental policy in an economy with pre-existing tax distortions, monitoring and enforcement of environmental regulations, distributional effects of environmental policy, and regulation of intertemporal externalities.

0101	Roberton Williams	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 1122

AREC799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

AREC846 Development Microeconomics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: AREC624, ECON603, and AREC623; or equivalent. Formerly: AREC869E.

Development economics with focus on issues applicable to rural development and agriculture in developing countries. Content includes both theory and empirical application of theory. Subjects covered include economics of agricultural households, credit and insurance markets, technological progress and learning and institutional economics of developing countries.

0101	Kenneth Leonard	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SYM 0215

AREC898**Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.**AREC899****Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.**ARHU****Arts and Humanities****Spring 2016****ARHU158F****Explorations in Arts and Humanities; Belonging and Exclusion in the Arts and Humanities**

Credits: 3 Grading Method: Regular

A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.

Restricted to first semester freshmen in the College of Arts and Humanities. In the 1980s, a popular bumper sticker read: "Why Be Normal?" Often affixed upside down, the sticker was meant to be a humorous take on the joys of challenging tradition and mainstream expectations. Today, a popular new trend in youth fashion is called "normcore," which celebrates being average. But what is "normal?" In this course, we trace ideas of the average, norm, and standard--as well as their supposed opposites, the unusual, different, and deviant--as explored in the arts and humanities, especially literary and visual culture as well as history.

0101	Christina Hanhardt	Seats (Total: 15)
	MW 3:00pm - 4:15pm	PLS 1180

ARHU269M**Special Topics in Study Abroad II; Sicily Against the Mafia**Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit*Special topics course taken as part of an approved study abroad program***Contact department for information to register for this course.****ARHU269V****Special Topics in Study Abroad II; Vienna and Budapest Field Study**Credits: 1 Grading Method: Regular,
Pass-Fail, Audit*Special topics course taken as part of an approved study abroad program***Contact department for information to register for this course.**

ARHU275**Writing to be Seen: Scriptwriting for Theatre, Film, and Television**

Credits: 3

Grading Method: Regular,
Pass-FailGeneral Education: DSHU,
DSSP

Also offered as: ENGL275. Credit only granted for: ENGL278D, ENGL275, ARHU319B or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

0101	Douglas Kern	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 1224
0102	Douglas Kern	Seats (Total: 5)
	MWF 10:00am - 10:50am	JMZ 1224

ARHU286**Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major in ARHU-College of Arts & Humanities; and must have earned a minimum of 12 credits.

Designed for ARHU students who wish to complete an internship in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students will be required to attend four weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.

0101	Paula Nadler	Seats (Total: 3)
	Contact instructor or department for details.	

ARHU318A**Writers' House Colloquium: Creative Writing Across Languages and Cultures; Poetry Colloquium**

(Perm req)

Credits: 1

Grading Method: Regular

Colloquium designed to improve students' skills in literary and communication arts through lectures and discussions on the history and craft of writing across cultures. Topics for the different versions of ARHU 318 include poetry, fiction, writing for different media, autobiography and memoir, scriptwriting, screenwriting, and community engagement projects.

0101	Leigh McDonald	Seats (Total: 15)
	M 4:00pm - 5:30pm	QAN 1132

ARHU318B Writers' House Colloquium: Creative Writing Across Languages and Cultures; Prose Colloquium

(Perm req)

Credits: 1 Grading Method: Regular

Colloquium designed to improve students' skills in literary and communication arts through lectures and discussions on the history and craft of writing across cultures. Topics for the different versions of ARHU 318 include poetry, fiction, writing for different media, autobiography and memoir, scriptwriting, screenwriting, and community engagement projects.

Restricted to Jimenez-Porter Writers' House Students

0101	Vivianne Salgado	Seats (Total: 15)
	W 6:00pm - 7:30pm	QAN 1132
0201	Douglas Kern	Seats (Total: 15)
	Th 5:00pm - 6:30pm	QAN 1132

ARHU320 Writers' House Second Year Colloquium: Writing for Publication

(Perm req)

Credits: 3 Grading Method: Regular

Recommended: Completion of ARHU318 and ARHU319 recommended. Restriction: Currently enrolled in Writers' House or permission of program. Credit only granted for: ARHU319A or ARHU320. Formerly: ARHU319A.

Students write, discuss and revise for multiple forms of publication: reading their own work at least once in public, sending work out for publication to literary journals, and producing a chapbook of high quality by end of semester.

0101	Johnna Schmidt	Seats (Total: 25)
	F 2:00pm - 4:30pm	TWS 1105

ARHU338 Undergraduate Teaching Assistantship in the Writers' House

(Perm req)

Credits: 3 Grading Method: Regular

Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).

0101	Johnna Schmidt	Seats (Total: 2)
Contact instructor or department for details.		

ARHU386

Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.

0201	Paula Nadler	Seats (Total: 35)
Contact instructor or department for details.		

ARHU439J

Interdisciplinary Studies in Arts and Humanities; Social Activism and Popular Culture

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An interdisciplinary exploration of chronological, geographical or thematic topics in Arts and Humanities.

This is a blended learning course covering topics related to social activism and popular culture both online and in the classroom. It is the first semester of the College of Arts and Humanities Social Innovation Scholars program taken in the spring, in which they will learn about social innovation and the public discourse and be paired with a mentor from a non-profit organization. There is also a summer internship and a fall course in which they will implement their innovation. Participation is by application and permission only. To enroll, students must contact the ARHU advising office in 1120 Francis Scott Key, x5-2108. AMST majors are eligible for ARHU439J only.

0101	Sheri Parks	Seats (Total: 15)
	W 3:00pm - 5:30pm	KEY 0117

ARHU468

Peer Mentoring Program

(Perm req)

Credits: 1 Grading Method: Regular

A workshop for sophomore, junior or senior students who wish to serve as peer mentors helping first-year students to cope with the numerous issues which often arise in the transition to the university.

Restricted to ARHU upperclassmen who will serve as peer mentors to help transition new students to the university. Interested students must apply to become a peer mentor.

0101	J Greene	Seats (Total: 35)
	M 4:00pm - 5:30pm	KEY 0103

ARHU486 Internship Practicum in Arts and Humanities

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.

An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.

0101	Paula Nadler	Seats (Total: 20)
	Contact instructor or department for details.	

ARHU489 Advanced Internship Practicum in ARHU

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.

0101	Paula Nadler	Seats (Total: 2)
	Contact instructor or department for details.	

ARHU786 Leadership and Professional Development Internship

(Perm req)

Credits: 1-6 Grading Method: Regular

Prerequisite: Must have completed one semester of full-time graduate study; and permission of ARHU-College of Arts & Humanities.

Professional development for graduate students interested in careers in non-academic organizations and in administrative positions in academic institutions. See department graduate program director for internship guidelines and applicability to graduate program requirements.

Contact department for information to register for this course.

ARMY105 Basic Military Science II

Credits: 3 Grading Method: Regular

Restriction: Students must meet Officer candidate criteria to participate in field training. Credit only granted for: ARMY119 or ARMY105.

Exploration of the Army Leadership Model through classroom instruction, leadership training and mentorship. Develops knowledge and competency in physical fitness through rigorous training and experiential leadership education through leadership laboratories.

0101	Larry Rentz	Seats (Total: 40)	
	Tu 9:00am - 9:50am	TYD 0101	
	Th 4:00pm - 6:00pm	HBK 0115	Lab
	MWF 6:30am - 7:30am	HBK 0115	Lab
0102	Larry Rentz	Seats (Total: 40)	
	F 9:00am - 9:50am	KEY 0116	
	Th 4:00pm - 6:00pm	WDS 1114	Lab
	MWF 6:30am - 7:30am	WDS 1114	Lab

ARMY202 Military Leadership in PracticeCredits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: ARMY201. Restriction: Sophomore standing or higher.

This course uses the case study method to examine the Army Leadership Model as applied to assigned missions in U.S. history. Students learn to evaluate and assimilate effective leadership methods and techniques. Includes a laboratory period in which case studies are worked out and presented by individuals and groups.

0102	Larry Rentz	Seats (Total: 40)	
	Tu 2:00pm - 3:50pm	TYD 2110	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWF 6:30am - 7:30am	ARM 0131	Lab

ARMY302 Advanced Military Leadership II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of UGST-Army ROTC. Restriction: Junior standing or higher.

Prepares contracted students for certification at the Army National Advance Camp, a prerequisite for commissioning as an officer in the U.S. Army. Focus is directed to military tactics, squad and platoon drills, marksmanship, land navigation and fitness excellence. Includes a laboratory period in applied leadership skills as well as a three day field exercise.

0101	Larry Rentz	Seats (Total: 40)	
	Tu 1:00pm - 3:45pm	TWS 1310	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWF 6:30am - 7:30am	ARM 0131	Lab

ARMY402

Advanced Military Leadership IV

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of UGST-Army ROTC. Restriction: Senior standing.

The military system and code of ethics in the military environment is studied. Topics include code of conduct during all forms of military operations, the Geneva Conventions and the ethical decision making process. Also includes a laboratory in applied leadership skills, fitness excellence and two field exercises.

0101	Larry Rentz	Seats (Total: 30)	
	MW 1:00pm - 2:30pm	TWS 1321	
	Th 4:00pm - 6:00pm	ARM 0131	Lab
	MWF 6:30am - 7:30am	ARM 0131	Lab

ARSC

Air Science

Spring 2016

ARSC059

Air Force Officer Lab

Credits: 1 Grading Method: Sat-Fail

Offers Air Force ROTC cadet officer's practical experience in military leadership, management, organization, and customs. May include visits to military installations, weekend laboratories, and flight orientation.

Restriction: Must be an AFROTC cadet. Repeatable to 10 credits if content differs. Additional information: This course does not carry any credit toward any degree at the University.

0101	Stephen Surjue	Seats (Total: 250)
	Th 7:00am - 8:50am	Location: TBA
<i>Course meets in front of COL. Contact instructor for details.</i>		

ARSC101

The USAF Today II

Credits: 1 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059.

Freshman course for AFROTC. Continuation of ARSC100 for freshmen AFROTC cadets. Study of topics relating to the Air Forces and defense. Focuses on organizational structure and missions of the Air Force; officership and an introduction to both written and oral communication skills.

0101	Amanda Revisky	Seats (Total: 18)
	Tu 9:00am - 9:50am	COL 2126
0102	Amanda Revisky	Seats (Total: 90)
	Th 9:00am - 9:50am	TWS 1100

ARSC201 The Development of Air Power II

Credits: 1 Grading Method: Regular

Corequisite: AFROTC cadets must also register for ARSC059.

Continuation of ARSC 200 for sophomore AFROTC cadets. The study of historical events, leaders, and technical developments which surrounded the growth of air power; the basics of leadership; environment of an Air Force officer; and concepts of ethical behavior.

0101	Evan McCauley	Seats (Total: 49)
	Th 10:00am - 10:50am	TWS 1310
0103	Evan McCauley	Seats (Total: 25)
	Tu 8:00am - 8:50am	COL 2126

ARSC301 Management and Leadership II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: AFROTC cadets must also register for ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Junior standing or higher.

Continuation of ARSC300. Study of leadership and management skills and leadership ethics as well as written and oral communication skills required of Air Force officers. This course will satisfy credit towards a minor in military studies.

0101	Stephen Surjue	Seats (Total: 21)
	Th 9:00am - 12:00pm	COL 2126

0102	Stephen Surjue	Seats (Total: 21)
	TuTh 12:30pm - 2:00pm	COL 2126

ARSC399 Independent Study in Air and Space Power Implementation

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent study to broaden understanding of the implementation of air and space power. Topics of research are selected by the student and instructor to focus the student on a particular aspect of air and space power implementation during a particular campaign or conflict.

0101	Jiemin Hou	Seats (Total: 10)
	Contact instructor or department for details.	

ARSC401 National Security Forces in Contemporary American Society II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARSC300 or ARSC301; or permission of UGST-AFROTC-Air Science. Corequisite: ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Senior standing.

This course examines various subjects including: military law/justice, preparation for active duty, and current issues affecting military professionalism. This course will satisfy credit towards a minor in military studies.

0101	David Morrissey	Seats (Total: 30)
	Th 9:00am - 12:00pm	COL 3104
0102	David Morrissey	Seats (Total: 18)
	TuTh 2:00pm - 3:30pm	COL 2126

ARTH Art History & Archaeology Spring 2016

ARTH169B Special Topics in Study Abroad I; Arts of Modernity

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH169I Special Topics in Study Abroad I; Art of Rome

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH200

Art and Society in Ancient and Medieval Europe and the Mediterranean

Credits: 3 Grading Method: Regular, CORE: HA General Education: DSHU,
Pass-Fail, Audit DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

0101	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	M 9:00am - 9:50am	ASY 3219	Discussion
0102	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	W 10:00am - 10:50am	ASY 3215	Discussion
0103	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	F 9:00am - 9:50am	ASY 3219	Discussion
0104	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	M 10:00am - 10:50am	ASY 3215	Discussion
0105	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	F 11:00am - 11:50am	ASY 3215	Discussion
0106	Louise Martinez	Seats (Total: 25)	
	MW 11:00am - 11:50am	ASY 2203	
	F 10:00am - 10:50am	ASY 3215	Discussion

ARTH201

Art and Society in the West from the Renaissance to the Present

Credits: 3 Grading Method: Regular, CORE: HA General Education: DSHU,
Pass-Fail, Audit DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

0101	June Hargrove TuTh 11:00am - 11:50am M 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3215	Discussion
0102	June Hargrove TuTh 11:00am - 11:50am M 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0103	June Hargrove TuTh 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0104	June Hargrove TuTh 11:00am - 11:50am W 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion

ARTH221

Color: Art, Science, and Culture

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU,
SCIS

An interdisciplinary exploration of the intersections of art, science, and culture. Using research on human vision, neurobiology, and cognitive psychology, examines how vision works, why we see color, and how we respond to color. Investigates the cultural significance of color: how artists across time and cultures have had access to and used color; how cultures have created specific language to describe color; and how cultures have imbued color with profane, sacred, and/or symbolic meanings.

0101	Renee Ater TuTh 9:30am - 10:20am F 9:00am - 9:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion
0102	Renee Ater TuTh 9:30am - 10:20am W 10:00am - 10:50am	Seats (Total: 25) ASY 2203 ASY 3219	Discussion
0103	Renee Ater TuTh 9:30am - 10:20am F 11:00am - 11:50am	Seats (Total: 25) ASY 2203 ASY 3211	Discussion

0104	Renee Ater	Seats (Total: 25)	
	TuTh 9:30am - 10:20am	ASY 2203	
	F 10:00am - 10:50am	ASY 3219	Discussion

ARTH269A Special Topics in Study Abroad II; Archaeology and Art of Ancient Italy - Sec. 1

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269P Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH269R Special Topics in Study Abroad II; Art of Renaissance

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH290 Art and Society in Asia

Credits: 3 Grading Method: Regular, CORE: HA, D General Education: DSHU,
Pass-Fail, Audit DVUP

A comparative, interrelational study of the different visual arts and material cultures produced by societies in Asia. An examination of the historical traditions and forms in political, social, and religious contexts.

0101	Jason Kuo	Seats (Total: 25)	
	MW 10:00am - 10:50am	ASY 2203	
	F 11:00am - 11:50am	ASY 3219	Discussion
0102	Jason Kuo	Seats (Total: 25)	
	MW 10:00am - 10:50am	ASY 2203	
	F 9:00am - 9:50am	ASY 3215	Discussion

0103	Jason Kuo	Seats (Total: 25)	
	MW 10:00am - 10:50am	ASY 2203	
	W 9:00am - 9:50am	ASY 3215	Discussion
0104	Jason Kuo	Seats (Total: 25)	
	MW 10:00am - 10:50am	ASY 2203	
	W 11:00am - 11:50am	ASY 3215	Discussion

ARTH303

Roman Art and Archaeology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Sites and monuments of painting, sculpture, architecture, and the minor arts from the earliest times through the third century A.D. with emphasis on the Italian peninsula from the Etruscan period through that of Imperial Rome.

0101	Maryl Gensheimer	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	ASY 3211	

ARTH330

Seventeenth-Century European Art

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Painting, sculpture and architecture concentrating on Italy, Spain, France, and England.

0101	Anthony Colantuono	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	ASY 3215	

ARTH346

Nineteenth-Century European Art from 1850

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major trends from Realism and Impressionism to Symbolism, exploring the historical context, in which concepts of gender, class, and race are integral to the transformation of Western art.

0101	June Hargrove	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	ASY 3215	

ARTH350

Twentieth-Century Art to 1945

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTH201.

Painting, sculpture, and architecture in Europe and America from the late nineteenth century to the end of World War II.

0101	Steven Mansbach	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	ASY 3215

ARTH359R Film as Art; Film of the 1970's Heroes in Heroic Times

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

0101	Greg Metcalf	Seats (Total: 30)
	W 3:00pm - 6:30pm	HBK 0302J

ARTH369B Special Topics in Study Abroad III; Bernini

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369C Special Topics in Study Abroad III; Art of Florence: Exploring Visual Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369F Special Topics in Study Abroad III; Art, Architecture, and Culture in Fascist Italy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369L Special Topics in Study Abroad III; Leonardo

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH369Q Special Topics in Study Abroad III; Patrons and Artists in Baroque Italy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTH382 Art of Japan before 1500

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ARTH382 or ARTH384. Formerly: ARTH384.

Thematically-focused topics in painting, sculpture, architecture and decorative arts of early and medieval Japan, from 5000 BC to 1500 AD.

0101	Yui Suzuki	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	ASY 3215

ARTH386 Experiential Learning

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTH389A Special Topics in Art History and Archaeology; The Art of Drawing: A Left and Right Brain Experience

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Beryl Bland	Seats (Total: 10)
	W 2:00pm - 4:30pm	ASY 3215

ARTH389F Special Topics in Art History and Archaeology; Classical Mythology in Renaissance Art, 1400-1700

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Aneta Georgievska-Shine	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ASY 3211

ARTH389G Special Topics in Art History and Archaeology; Film Between the World Wars: Constructivism, Expressionism, Surrealism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Greg Metcalf	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	ASY 3211

ARTH389Z Special Topics in Art History and Archaeology; Jewish Art in the Twentieth Century

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

ARTH488G Colloquium in Art History; Utopia in Modern Art

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

0101	Steven Mansbach	Seats (Total: 10)
	TuTh 9:30am - 10:45am	ASY 3217

ARTH488M Colloquium in Art History; Mexican Muralism: Nation, Race, Revolution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

0101	Abigail McEwen	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ASY 3217

ARTH488R Colloquium in Art History; Aging and Creativity: Older Artists in Our Community

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Colloquium to investigate a specific topic in depth.

This special course-exhibition, open to both graduate and undergraduate students, is intended to engage students in shaping and organizing an art exhibition devoted to arts created by people over the age of 65 in our community. Contact Professor Kuo at jck@umd.edu for information and special permission.

0101	Jason Kuo	Seats (Total: 10)
	M 12:00pm - 2:30pm	ASY 4304

ARTH489K Special Topics in Art History; Art and the Museum World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Aneta Georgievska-Shine	Seats (Total: 15)
	F 2:00pm - 4:30pm	ASY 3217

ARTH489Z Special Topics in Art History; Art in London

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

ARTH498 Directed Studies in Art History I

(Perm req)

Credits: 2-3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

ARTH499 Honors Thesis

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

ARTH689B Selected Topics in Art History; Monsters and the Supernatural in Global Visual Culture

Credits: 1-3 Grading Method: Regular,
Audit

0101	Yui Suzuki	Seats (Total: 6)
	Tu 3:00pm - 5:40pm	ASY 4304

ARTH738D Seminar in Seventeenth-Century Southern European Art; Caravaggio: From Baroque Painting to Modern Myth

Credits: 3

0101	Anthony Colantuono	Seats (Total: 6)
	Tu 12:00pm - 2:40pm	ASY 4304

ARTH739C Seminar in Seventeenth-Century Northern European Art; The Mystery of Vermeer and the Magic of His Paintings

Credits: 3

0101	Arthur Wheelock	Seats (Total: 6)
	M 3:00pm - 5:40pm	ASY 4304

ARTH759F Seminar in Twentieth-Century Art; Minor Modernisms

Credits: 3

0101	Joshua Shannon	Seats (Total: 6)
	Th 12:00pm - 2:40pm	ASY 4304

ARTH798 Directed Graduate Studies in Art History

(Perm req) Credits: 3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

Credits: 3

Contact department for information to register for this course.

ARTH799 Master's Thesis Research

(Perm req) Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

Credits: 1-6

Contact department for information to register for this course.

ARTH898 Pre-Candidacy Research

(Perm req) Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

Credits: 1-8

Contact department for information to register for this course.

ARTH899 Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

ARTT

Art Studio

Spring 2016

ARTT100

Two-Dimensional Design Fundamentals

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Principles and elements of two-dimensional design. Introduction to visual communication.

Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 18)	
	MW 9:00am - 11:30am	ASY 2318	Lab
0201	Robert Hackett	Seats (Total: 18)	
	MW 9:00am - 11:30am	ASY 2318	Lab
0301	Wendy Jacobs	Seats (Total: 18)	
	MW 12:30pm - 3:00pm	ASY 2318	Lab
0401	Wendy Jacobs	Seats (Total: 18)	
	MW 12:30pm - 3:00pm	ASY 2318	Lab
0501	Wendy Jacobs	Seats (Total: 18)	
	MW 3:00pm - 5:30pm	ASY 2318	Lab
0601	Wendy Jacobs	Seats (Total: 18)	
	MW 3:00pm - 5:30pm	ASY 2318	Lab
0701	James Thorpe	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 2318	Lab
0801	James Thorpe	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 2318	Lab

ARTT110

Elements of Drawing I

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a \$40.00 studio lab fee.

0101	Tyler Hildebrand TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
0201	Tyler Hildebrand TuTh 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab
0301	Cindy Cheng MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0401	Cindy Cheng MW 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab
0501	Tyler Hildebrand TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
0601	Tyler Hildebrand TuTh 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
0701	Cindy Cheng MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2317	Lab
0801	Cindy Cheng MW 12:30pm - 3:00pm	Seats (Total: 18) ASY 2321	Lab
0901	Leslie Berns MW 9:00am - 11:30am	Seats (Total: 18) ASY 2317	Lab
1001	Leslie Berns MW 9:00am - 11:30am	Seats (Total: 18) ASY 2321	Lab
1101	Aydin Hamami TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2321	Lab
1201	Aydin Hamami TuTh 3:30pm - 6:00pm	Seats (Total: 18) ASY 2317	Lab

ARTT150**Introduction to Art Theory**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.

0101	Richard Klank MW 1:00pm - 1:50pm M 12:00pm - 12:50pm	Seats (Total: 25) ASY 2309 ASY 3215	Discussion
0102	Richard Klank MW 1:00pm - 1:50pm W 12:00pm - 12:50pm	Seats (Total: 25) ASY 2309 ASY 3219	Discussion
0103	Richard Klank MW 1:00pm - 1:50pm W 2:00pm - 2:50pm	Seats (Total: 25) ASY 2309 ASY 3211	Discussion
0201	Rex Weil TuTh 3:30pm - 4:20pm Th 2:00pm - 2:50pm	Seats (Total: 25) ASY 2309 ASY 3219	Discussion
0202	Rex Weil TuTh 3:30pm - 4:20pm Tu 12:30pm - 1:20pm	Seats (Total: 25) ASY 2309 ASY 3221	Discussion
0203	Rex Weil TuTh 3:30pm - 4:20pm Th 12:30pm - 1:20pm	Seats (Total: 25) ASY 2309 ASY 3219	Discussion

ARTT200**Three-Dimensional Art Fundamentals**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110.

Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.

Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 1311	Lab
0201	Zac Benson	Seats (Total: 18)	
	MW 3:30pm - 6:00pm	ASY 1311	Lab
0301	Steven Jones	Seats (Total: 18)	
	MW 12:30pm - 3:00pm	ASY 1311	Lab

ARTT210

Elements of Drawing II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a \$40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 16)	
	TuTh 9:00am - 11:30am	ASY 2315	Lab
0201	Emily Conover	Seats (Total: 16)	
	TuTh 3:00pm - 5:30pm	ASY 2315	Lab
0301	Lillian Hoover	Seats (Total: 16)	
	MW 12:30pm - 3:00pm	ASY 2315	Lab

ARTT255

Introduction to Digital Art and Design Processes

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.

Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.

Students must pay a \$40.00 studio lab fee.

0101	Shannon Collis	Seats (Total: 24)	
	MW 1:00pm - 3:30pm	CSS 1410	Lab
0201	Narendra Ratnapala	Seats (Total: 24)	
	TuTh 12:30pm - 3:00pm	CSS 1410	Lab
0301	Narendra Ratnapala	Seats (Total: 24)	
	TuTh 3:30pm - 6:00pm	CSS 1410	Lab

ARTT260

Dangerous Art: Censorship or Subsidy

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

Combines a broad historical analysis of the relationship between art and authority with an examination of contemporary culture criticism and art practice. Explores the uses and abuses of art and culture in totalitarian and theocratic states as a prelude to a review of the role of official culture in the United States. Examines art and culture in the public arena and many related areas where the arts and policy interact.

0101	Rex Weil	Seats (Total: 60)	
	TuTh 6:00pm - 7:15pm	ASY 2309	

ARTT269A

Special Topics in Study Abroad II; Archaeology and Art of Ancient Italy

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT320

Elements of Painting

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes of oil and/or acrylic painting.

Students must pay a \$40.00 studio lab fee.

0101	Emily Conover	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 3322	Lab
<i>This section uses acrylic paint only.</i>			

0201	Lillian Hoover	Seats (Total: 18)	
	MW 3:30pm - 6:00pm	ASY 3318	Lab
0301	Richard Klank	Seats (Total: 15)	
	MW 9:00am - 11:30am	ASY 3322	Lab

ARTT330 Elements of Sculpture: Metal Casting

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a \$40.00 studio lab fee.

0101	John Ruppert	Seats (Total: 12)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT330H Elements of Sculpture: Metal Casting

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to metal casting.

Students must pay a \$40.00 studio lab fee.

0101	John Ruppert	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT331 Elements of Sculpture: Steel

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.

Students must pay a \$40.00 studio lab fee.

0101	Dane Winkler	Seats (Total: 14)	
	TuTh 12:30pm - 3:00pm	ASY 1314	Lab

ARTT333 Elements of Sculpture: Wood and Mixed Media

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 12)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT333H Elements of Sculpture: Wood and Mixed Media

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Sculptural concepts and fundamental processes using wood and mixed media.

Restricted to departmental honors students only. Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT340 Elements of Printmaking: Intaglio

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to etching, aquatint, and drypoint.

Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 12)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT341 Elements of Printmaking: Woodcut and Relief

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

Students must pay a \$40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 8)	
	MW 3:30pm - 6:00pm	ASY 1317	Lab

ARTT341H Elements of Printmaking: Woodcut and Relief

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.

0101	Matthew McLaughlin	Seats (Total: 2)	
	MW 3:30pm - 6:00pm	ASY 1317	

ARTT343 Elements of Printmaking: Screen Printing

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Includes photographic processes. Students must pay a \$40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 12)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT343H Elements of Printmaking: Screen Printing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Concepts and fundamental processes related to silkscreen printing.

Students must pay a \$40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 2)	
	TuTh 12:30pm - 3:00pm	ASY 1317	Lab

ARTT353 Elements of Photography

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.

Introduction to black-and-white photography. Basic technical and aesthetic vocabulary, camera mechanics and darkroom techniques. Introduction to the photographic message and meaning in both fine art and design concept.

Students must pay a \$40.00 studio lab fee.

[Click here for more course information.](#)

Contact department for information to register for this course.

ARTT357 Interactive Design

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: ARTT355 and ARTT356.

In-depth exploration of interactive design and website construction. Emphasis on concept-driven and community-based projects using variety of interactive software programs.

Students must pay a \$40.00 studio lab fee.

0101	Liese Zahabi	Seats (Total: 25)	
	MW 3:00pm - 5:30pm	ASY 2322	Lab

ARTT361 Design Literacy: Decoding Our Visual Culture

(Perm req) Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ARTT355 and ARTT356. Credit only granted for: ARTT361 or ARTT489L. Formerly: ARTT489L.

Holistic presentation of design history and theory from pre-history to present. Covers primarily visual communication design and includes the interrelationship of interior-, furniture-, industrial-, fashion-design, and architecture.

0101	Rex Weil	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	ASY 2322

ARTT369T Special Topics in Study Abroad III; Elements of Photography

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ARTT386 Experiential Learning

(Perm req) Grading Method: Regular,
Credits: 3-6 Pass-Fail

Prerequisite: Permission of ARHU-Art department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ARTT389 Department of Art Undergraduate Teaching Assistantship

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized assistantship in the teaching of a specified department course offering. Must have previously received an "A" grade for the class to be assisting.

Contact department for information to register for this course.

ARTT399 Department of Art Research Assistantship

(Perm req) Grading Method: Regular,
Credits: 1-3 Pass-Fail, Audit

Individual contractual agreement with faculty/mentor. Individualized experiential learning developed in relation to art-related research issues.

Contact department for information to register for this course.

ARTT418B Advanced Drawing Studio; Advanced Drawing: Contemporary Approach

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT150, ARTT200 and ARTT210; plus one 300-level studio course; or permission of Department. Repeatable to 12 credits. Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions. Students must pay a \$40.00 studio lab fee.

0101	Leslie Berns	Seats (Total: 18)	
	MW 12:30pm - 3:00pm	ASY 2314	Lab
0201	Patrick Craig	Seats (Total: 18)	
	TuTh 3:00pm - 5:30pm	ASY 2314	Lab
0301	Jowita Wyszomirska	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 2314	Lab

ARTT418H Advanced Drawing Studio; Honors Advanced Drawing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Restricted to departmental honors students only. Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; and permission of department. Students must pay a \$40.00 studio lab fee.

0201	Patrick Craig	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 2314	Lab
0301	Leslie Berns	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 2314	Lab

ARTT428 Advanced Painting Studio; Advanced Painting

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT320 or permission of department. Repeatable to 12 credits. Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions. Students must pay a \$40.00 studio lab fee.

0101	Patrick Craig	Seats (Total: 18)	
	TuTh 12:30pm - 3:00pm	ASY 3312	Lab
0201	Patrice Kehoe	Seats (Total: 18)	
	TuTh 3:00pm - 5:30pm	ASY 3312	Lab
0301	Richard Klank	Seats (Total: 8)	
	MW 9:00am - 11:30am	ASY 3318	Lab

ARTT428H Advanced Painting Studio; Honors Advanced Painting

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Prerequisite: ARTT320 and permission of department. Students must pay a \$40.00 studio lab fee.

0101	Patrick Craig	Seats (Total: 2)	
	TuTh 12:30pm - 3:00pm	ASY 3316	Lab
0201	Patrice Kehoe	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 3316	Lab
0301	Richard Klank	Seats (Total: 2)	
	MW 9:00am - 11:30am	ASY 3318	Lab

ARTT428X Advanced Painting Studio

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.

Contact department for information to register for this course.

ARTT438A Advanced Sculpture Studio; Advanced Metal Casting

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT330 or permission of department. Students must pay a \$40.00 studio lab fee.

0101	John Ruppert	Seats (Total: 4)	
	MW 12:30pm - 3:00pm	ASY 1310	Lab

ARTT438B Advanced Sculpture Studio; Steel and Mixed Media

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT331 or permission of department. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media. Mixed media and installation concepts explored. Students must pay a \$40.00 studio lab fee.

0101	John Ruppert	Seats (Total: 12)	
	MW 3:00pm - 5:30pm	ASY 1314	Lab

ARTT438D Advanced Sculpture Studio; Advanced Sculpture in Wood and Mixed Media

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: ARTT333 or permission of department. Repeatable to 12 credits. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a \$40.00 studio lab fee.

0101	Robert Hackett	Seats (Total: 4)	
	TuTh 3:00pm - 5:30pm	ASY 1311	Lab

ARTT438H Advanced Sculpture Studio; Honors Advanced Sculpture

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Prerequisite: 300-level sculpture course and permission of department. Students must pay a \$40.00 studio lab fee.

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Prerequisite: One 300-level printmaking course or permission of department. Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media. Students must pay a \$40.00 laboratory studio fee.

0101	Matthew McLaughlin	Seats (Total: 4)	
	MW 3:30pm - 6:00pm	ASY 1317	Lab

ARTT448H Advanced Printmaking Studio; Honors Advanced Printmaking

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Multi-level printmaking studio; continuation of media-specific printmaking courses with emphasis on contemporary art issues and individual directions in chosen media.

Restricted to departmental honors students only. Prerequisite: 300-level printmaking course and permission of department. Students must pay a \$40.00 studio lab fee.

0101	Justin Strom	Seats (Total: 2)	
	TuTh 3:00pm - 5:30pm	ASY 1317	Lab
	<i>Advanced Screen Printing.</i>		
0301	Shannon Collis	Seats (Total: 2)	
	MW 3:30pm - 6:00pm	ASY 1317	Lab
	<i>Advanced Woodcut and Mixed Media</i>		
0501	Robert Hackett	Seats (Total: 2)	
	MW 12:30pm - 3:00pm	ASY 1317	Lab

ARTT455 Three Dimensional Graphic Design

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ARTT355, ARTT356, and ARTT357. Recommended: ARTT333. Credit only granted for: ARTT352 or ARTT455. Formerly: ARTT352.

Continued exploration of advanced graphic design practices with primary emphasis on 3-D object and packaging design. Includes research, course reading discussion, oral presentations, and specific project assignments which will require a proficient level of hand-skills (craft) and computer skills.

Students must pay a \$40.00 studio lab fee.

0101	Audra Buck-Coleman	Seats (Total: 25)	
	MW 12:30pm - 3:00pm	ASY 2322	Lab

ARTT458 Graphic Design Portfolio; Advanced Graphic Design

(Perm req)

Credits: 3 Grading Method: Regular

Creation of a comprehensive professional portfolio. Curriculum includes portfolio preparation and presentation, contracts, copyright issues, interviewing skills, resume and cover-letter writing, design briefs and proposals, and freelance business issues. Portfolio presentation includes basics of book arts.

Print publication and self promotion design. Students must pay a \$40.00 studio lab fee.

0101	Liese Zahabi	Seats (Total: 25)	
	MW 9:00am - 11:30am	ASY 2322	Lab

ARTT479C Advanced Digital Media Studio; Sound Art: Practice and Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT370. Students must pay a \$40.00 studio lab fee. Basics of sound recording, mixing, and processing, as well as creative applications of sound used for screen-based practices, performance and installation art. Theoretical concepts central to sound as an artistic medium are also introduced.

0101	Shannon Collis	Seats (Total: 12)	
	MW 4:00pm - 6:30pm	ASY 3311E	Lab

ARTT479H Advanced Digital Media Studio; Honors Advanced Digital Media

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT370. Restricted to Departmental Honors students. Basics of sound recording, mixing, and processing, as well as creative applications of sound used for screen-based practices, performance and installation art. Theoretical concepts central to sound as an artistic medium are also introduced. Students must pay a \$40.00 studio lab fee.

0101	Shannon Collis	Seats (Total: 2)	
	MW 4:00pm - 6:30pm	ASY 3311E	Lab

ARTT481 Advanced Specialization Seminar

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ARHU-Art department.

Seminar combines contemporary art theory, criticism, professional practice and career preparation in relation to students works from all areas of specialization.

0101	Steven Jones	Seats (Total: 15)	
	F 10:00am - 12:30pm	ASY 1311	

ARTT489N Advanced Special Topics in Art; Design in Illustration

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

Pre-requisite: ARTT210. This course may not be used to satisfy the studio art elective requirement for the Graphic Design Concentration -Track 3. Students must pay a \$40.00 studio lab fee.

0101	James Thorpe	Seats (Total: 20)	
	TuTh 9:00am - 11:30am	ASY 2318	

ARTT489P Advanced Special Topics in Art; Experimental Film and Video

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

Contact department for information to register for this course.

ARTT489W Advanced Special Topics in Art; Contemporary Issues in Art and Technology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of student's work on an advanced studio level within the context of a special topic.

Seminar focusing on the intersection of art and technology in a critical manner exploring cultural and artistic implications of new media and new technologies. Explores evolution of technology and its significance through the context of contemporary art and visual culture.

0101	Hasan Elahi	Seats (Total: 15)
	M 6:00pm - 8:30pm	ASY 3215

ARTT498A Directed Studies in Studio Art

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a \$40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498B Directed Studies in Studio Art

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Students must pay a \$40.00 studio lab fee.

Contact department for information to register for this course.

ARTT498H Directed Studies in Studio Art; Honors Thesis

(Perm req)

Credits: 2-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced independent work in Studio Art. Meeting with faculty and studi time arranged.

Restricted to departmental honors students only. Prerequisite: permission of department. Students must pay a \$40.00 studio lab fee.

Contact department for information to register for this course.

ARTT618 Drawing; Drawing

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Independent studies in drawing for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT628 Painting; Painting

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Graduate painting for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT638

Sculpture; Sculpture

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Independent studies in sculpture for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT648

Printmaking; Printmaking

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Independent studies in printmaking for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698A

Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4

Grading Method: Regular,
Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698B

Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4

Grading Method: Regular,
Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT698C Directed Graduate Studies in Studio Art; Graduate Teaching Practicum

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Independent work. Meetings with faculty and studio time arranged.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699A Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Independent graduate studies.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT699B Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Independent graduate studies.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT718 Drawing; Drawing

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Independent studies in drawing for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT728 Painting; Painting

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Independent studies in painting for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT738 Sculpture; Sculpture

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Independent studies in sculpture for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT748 **Printmaking; Printmaking**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Independent studies in printmaking for advanced special students.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT768 Graduate Colloquium

(Perm req)

Credits: 2

Grading Method: Regular,
Audit

*Examines various aspects of art, art theory and criticism in a contemporary and multi-cultural context.
Relates student work to this context.*

Students must pay a \$60.00 studio lab fee.

0101	Hasan Elahi	Seats (Total: 18)
	Tu 6:30pm - 9:00pm	ASY 3217

ARTT798A Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4

Grading Method: Regular,
Audit

Independent graduate studies.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT798B Directed Graduate Studies in Studio Art

(Perm req)

Credits: 1-4

Grading Method: Regular,
Audit

Independent graduate studies.

Students must pay a \$60.00 studio lab fee.

Contact department for information to register for this course.

ARTT799

Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ASTR

Astronomy

Spring 2016

ASTR100

Introduction to Astronomy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: ASTR100, ASTR101, or ASTR120.

An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.

Discussion sections do not meet the first week of classes. Attend lecture before coming to discussion section.

0101	Sylvain Veilleux TuTh 9:30am - 10:45am M 2:00pm - 2:50pm	Seats (Total: 40) PHY 1412 CSS 2400	Discussion
0102	Sylvain Veilleux TuTh 9:30am - 10:45am W 2:00pm - 2:50pm	Seats (Total: 40) PHY 1412 CSS 2400	Discussion
0103	Sylvain Veilleux TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 40) PHY 1412 CSS 2400	Discussion
0104	Sylvain Veilleux TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 40) PHY 1412 CSS 2400	Discussion
0105	Sylvain Veilleux TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 40) PHY 1412 CSS 2400	Discussion

0106	Sylvain Veilleux	Seats (Total: 40)		
	TuTh 9:30am - 10:45am	PHY 1412		
	W 12:00pm - 12:50pm	CSS 2428		Discussion

ASTR101

General Astronomy

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Credit only granted for: ASTR100, ASTR101, or ASTR120.

Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.

Discussion sections and lab do not meet the first week of classes. Attend lecture before coming to discussion or lab section.

0101	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	Tu 5:30pm - 7:30pm	CSS 1109		Lab
	Tu 3:30pm - 4:20pm	CSS 2400		Discussion
0102	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	W 8:30am - 10:30am	CSS 1109		Lab
	Tu 3:30pm - 4:20pm	CSS 2400		Discussion
0103	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	W 11:00am - 1:00pm	CSS 1109		Lab
	W 10:00am - 10:50am	CSS 2400		Discussion
0104	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	Th 8:30am - 10:30am	CSS 1109		Lab
	W 10:00am - 10:50am	CSS 2400		Discussion
0105	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	W 6:00pm - 8:00pm	CSS 1109		Lab
	W 11:00am - 11:50am	CSS 2400		Discussion

0106	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	Th 3:30pm - 5:30pm	CSS 1109	Lab	
	W 11:00am - 11:50am	CSS 2400	Discussion	
0107	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	Th 6:00pm - 8:00pm	CSS 1109	Lab	
	W 12:00pm - 12:50pm	CSS 2400	Discussion	
0108	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	F 10:00am - 12:00pm	CSS 1109	Lab	
	W 12:00pm - 12:50pm	CSS 2400	Discussion	
0109	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	W 1:00pm - 3:00pm	CSS 1109	Lab	
	W 11:00am - 11:50am	CSS 2428	Discussion	
0110	Lee Mundy	Seats (Total: 20)		
	TuTh 11:00am - 12:15pm	PHY 1412		
	F 1:00pm - 3:00pm	CSS 1109	Lab	
	W 11:00am - 11:50am	CSS 2428	Discussion	

ASTR121

Introductory Astrophysics II - Stars and Beyond

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Prerequisite: ASTR120 and MATH115; or permission of CMNS-Astronomy department.

For students majoring in astronomy or with a strong interest in science Includes instrumentation, stellar properties, stellar evolution, structure of the galaxy, other galaxies, large scale structure, Big Bang Theory, and future of the universe.

0101	Derek Richardson	Seats (Total: 15)		
	TuTh 11:00am - 12:15pm	CSS 2428		
	M 2:00pm - 4:00pm	CSS 1220	Lab	
	F 1:00pm - 1:50pm	CSS 2428	Discussion	

0102	Derek Richardson	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	CSS 2428	
	M 11:00am - 1:00pm	CSS 1220	Lab
	F 1:00pm - 1:50pm	CSS 2428	Discussion

ASTR220 Collisions in Space - The Threat of Asteroid Impacts

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Restriction: Must not be in Astronomy program. Additional information: Course is open to Astronomy and Planetary Sciences minors.

Appropriate for non-science majors. Worried? Can't sleep? Collisions in Space will evaluate the threat of asteroid impacts with the Earth using knowledge of asteroid characteristics and orbits. The merits of possible defense plans will be discussed, as well as the budgetary and political concerns associated with implementing any such plan.

0101	Melissa Hayes-Gehrke	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	CSS 2400	
	W 1:00pm - 1:50pm	CSS 2428	Discussion
0102	Melissa Hayes-Gehrke	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	CSS 2400	
	W 2:00pm - 2:50pm	CSS 2428	Discussion

ASTR230 The Science and Fiction of Planetary Systems

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Prerequisite: Must have math eligibility of MATH115 or higher; or MATH113.

Have you ever wondered if humans will ever terraform Mars or Europa so we could live there without a spacesuit? Has it ever crossed your mind how lucky you are that you live on a water-rich planet with an oxygen-rich atmosphere? Have you ever suspected novelists and scriptwriters of creating ridiculous planets that violate scientific laws? Does the fate of our planet's thin biosphere keep you up at night? How common is life in the Universe? These are difficult questions, but armed with the right information, you can answer all of them. The Science and Fiction of Planetary Systems will help you develop a deeper understanding of why planets are the way they are. Along the way, you'll see examples of mistakes made in classic science fiction movies, novels and short stories and get the chance to invent your own plausible planets!

0101	Alan Peel	Seats (Total: 30)	
	MWF 9:00am - 9:50am	PHY 1412	
	M 12:00pm - 12:50pm	CSS 2428	Discussion
0102	Alan Peel	Seats (Total: 30)	
	MWF 9:00am - 9:50am	PHY 1412	
	M 1:00pm - 1:50pm	CSS 2428	Discussion
0103	Alan Peel	Seats (Total: 30)	
	MWF 9:00am - 9:50am	PHY 1412	
	M 2:00pm - 2:50pm	CSS 2428	Discussion

ASTR288 Special Projects in Astronomy

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

A faculty sponsor must be found by the students prior to enrollment.

Contact department for information to register for this course.

ASTR288M Special Projects in Astronomy; Current Events in Astronomy Research

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.

Prerequisite: permission of department.

0101	Stuart Vogel	Seats (Total: 10)
	M 4:00pm - 4:50pm	PSC 1204

ASTR300 Stars and Stellar Systems

Credits: 3 Grading Method: Regular, General Education: DSNS
Pass-Fail, Audit

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. Study of stars-types, properties, evolution, and distribution in space; supernovae, pulsars, and black holes.

0101	Alan Peel	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	CSS 2400

ASTR320 Theoretical Astrophysics

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: ASTR121; and (PHYS270 and PHYS271; or PHYS273). Or permission of CMNS-Astronomy department.

Application of selected physics concepts in an astrophysical context. Topics would include gravity (Keplerian motion, Virial theorem, Roche limit, dynamical friction); gas dynamics (hydrostatic equilibrium, stellar models, spiral density waves), thermodynamics and statistical physics (Boltzmann distribution, Wien displacement, convective instability, degenerate gas); atomic physics (quantum principles, H atom, permitted and forbidden lines); radiation processes (line radiation, opacity).

0101	Massimo Ricotti	Seats (Total: 31)
	TuTh 11:00am - 12:15pm	CSS 1113
	W 2:00pm - 2:50pm	CSS 1113 Discussion

ASTR330 Solar System Astronomy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or the General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department. Credit only granted for: ASTR330 or GEOL212.

Designed primarily for non-science majors. The structure of planets and of their atmospheres, the nature of comets, asteroids, and satellites. Comparison of various theories for the origin of the solar system. Emphasis on a description of recent data and interpretation.

0101	Douglas Hamilton	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	CSS 2428

ASTR340 Origin of the Universe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSNS

Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.

Designed primarily for non-science majors. A study of our progression of knowledge about the universe. Topics include: early cosmological models, geocentric vs. heliocentric theory, curvature of space, Hubble's Law, Big Bang Theory, microwave background radiation, evolution of stars and galaxies, dark matter, active galaxies, quasars and the future of the universe.

0101	Alberto Bolatto	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	CSS 2400

ASTR380 Life in the Universe - Astrobiology

Credits: 3 Grading Method: Regular, General Education: DSNS
Audit

Designed primarily for non-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life in the universe.

0101	Susan Hoban	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	CSS 2400

ASTR399 Honors Seminar

(Perm req) Credits: 1-16 Grading Method: Regular,
Pass-Fail, Audit

Credit according to work done.

Contact department for information to register for this course.

ASTR410 Radio Astronomy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ASTR121; and (PHYS271 and PHYS270; or PHYS273). Or permission of CMNS-Astronomy department.

Introduction to current observational techniques in radio astronomy. The radio sky, radiophysics, coordinates and catalogs, antenna theory, Fourier transforms, interferometry and arrays, aperture synthesis, and radio detectors.

0101	Andrew Harris	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CSS 2416

ASTR480**High Energy Astrophysics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ASTR320; or permission of CMNS-Astronomy department.

The structure, formation, and astrophysics of compact objects, such as white dwarfs, neutron stars, and black holes, are examined. Phenomena such as supernovae and high-energy particles are also covered.

0101	Richard Mushotzky	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSS 2416

ASTR498**Special Problems in Astronomy**

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

ASTR606**Stellar Structure and Evolution**

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ASTR601; or permission of CMNS-Astronomy department.

Models of stellar atmospheres, methods of determining properties of stars, physical principles governing stellar interior processes, observational data for determining stellar evolution, nuclear processes, stellar modeling.

0101	Leo Deming	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSS 0201

ASTR622**Cosmology**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of CMNS-Astronomy department. Credit only granted for: ASTR622 or ASTR688R. Formerly: ASTR688R.

Introduction to modern cosmology. Topics include the large scale structure of the universe, cosmological models, the Big Bang, the cosmic microwave background, the nature of dark matter, and galaxy formation.

0101	Christopher Reynolds	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	CSS 0201

ASTR699 Special Problems in Advanced Astronomy
 (Perm req) Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

ASTR799 Master's Thesis Research
 Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

ASTR898 Pre-Candidacy Research
 Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

ASTR899 Doctoral Dissertation Research
 (Perm req) Credits: 6 Grading Method: Regular
Contact department for information to register for this course.

BCHM Biochemistry **Spring 2016**

The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course. Registration in course sections which begin with "SES" is restricted to students admitted into the Science in the Evening Program, administered through the Office of Extended Studies. For complete information, visit: <http://oes.umd.edu/index.php?slab=sie>, e-mail oes@umd.edu, or call 301-405-7762.*

BCHM461 Biochemistry I
 Credits: 3 Grading Method: Regular, Pass-Fail, Audit
Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.
First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.

0101	Douglas Julin	Seats (Total: 131)
	TuTh 9:30am - 10:45am	CHM 1407

0102	Paul Paukstelis	Seats (Total: 130)
	TuTh 12:30pm - 1:45pm	CHM 1402

BCHM462 Biochemistry II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.

A continuation of BCHM 461. Metabolic pathways and metabolic regulation energy transduction in biological systems, enzyme catalytic mechanisms.

0101	George Lorimer	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	CHM 1402
0102	Douglas Julin	Seats (Total: 60)
	MWF 1:00pm - 1:50pm	CHM 1402

BCHM463 Biochemistry of Physiology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.

A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.

0101	Christopher Capp	Seats (Total: 130)
	MW 2:00pm - 3:15pm	CHM 1402
0201	Bonnie Dixon	Seats (Total: 130)
	TuTh 2:00pm - 3:15pm	PHY 1410
SES1	Erik Lontok	Seats (Total: 45)
	M 6:30pm - 9:30pm	MCB 1207
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>		

BCHM464**Biochemistry Laboratory**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for all College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: BCHM465. Restriction: BCHM, CHEM, and Nutritional Sciences majors have first priority, followed by other life science majors.

Biochemical and genetic methods for studying protein function. Site-directed mutagenesis and molecular cloning, protein purification, enzyme activity assays, computer modeling of protein structure.

Students must pay a \$40.00 lab materials fee.

0101	Christopher Capp	Seats (Total: 18)	
	Th 11:00am - 11:50am	CHM 1402	
	M 1:00pm - 5:50pm	CHM 1119	Lab
0102	Christopher Capp	Seats (Total: 18)	
	Th 11:00am - 11:50am	CHM 1402	
	Tu 12:30pm - 5:20pm	CHM 1119	Lab
0103	Christopher Capp	Seats (Total: 18)	
	Th 11:00am - 11:50am	CHM 1402	
	W 1:00pm - 5:50pm	CHM 1119	Lab

BCHM465**Biochemistry III**

Credits: 3 Grading Method: Regular, CORE: CS
Pass-Fail, Audit

Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Recommended: BCHM462.

CORE Capstone (CS) Course. An advanced course in biochemistry. Biochemical approach to cellular information processing. DNA and RNA structure. DNA replication, transcription, and repair. Translation of mRNA to make proteins.

0101	Dorothy Beckett	Seats (Total: 80)	
	MWF 12:00pm - 12:50pm	CHM 1402	

BCHM485**Physical Biochemistry**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Physical Chemistry with applications to biological systems. Principal topics: quantum chemistry, spectroscopy, structural methods for biological macromolecules, statistical thermodynamics, transport processes in liquid phase, chemical and biochemical kinetics, modeling and simulation, polymer dynamics.

0101	David Fushman	Seats (Total: 55)
	TuTh 9:30am - 10:45am	CHM 2201

Credits: 2 Grading Method: Regular, Audit

0101	John Orban	Seats (Total: 10)
	Meets January 26, 2016 - March 10, 2016	
	TuTh 2:00pm - 3:50pm	PLS 5112

Credits: 2 Grading Method: Regular, Audit

0101	Osnat Herzberg	Seats (Total: 10)
	Meets March 22, 2016 - May 10, 2016	
	TuTh 2:00pm - 3:50pm	PLS 5112

Credits: 3 Grading Method: Regular, Audit

Prerequisite: CHEM481 and BCHM461; or students who have taken courses with comparable content may contact the department.

Conformation, shape, structure, conformational changes, dynamics and interactions of biological macromolecules and complexes or arrays of macromolecules. Physical techniques for studying properties of biological macromolecules.

0101	Theodore Dayie	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CHM 1224

BCHM676 Biological Mass Spectrometry

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: BCHM461 or BCHM463. Formerly: BCHM669B.

Fundamentals of modern mass spectrometry and use with biochemical techniques to provide unique analyses of drug metabolites, lipids, carbohydrates, nucleotides and proteins. The interface with bioinformatics will be examined, which provides the foundation of proteomics.

Also offered as BIOE689B and CHEM699A. Credit granted for BCHM676, BIOE689B, or CHEM699A.

0101	Catherine Cotter	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CHM 1224

BCHM698 Literature Seminar in Biochemistry

Credits: 2 Grading Method: Regular

Students will prepare and present a departmental seminar based on a topic in the current biochemical research literature.

0101	George Lorimer	Seats (Total: 10)
	Contact instructor or department for details.	

BCHM699 Special Problems in Biochemistry

Credits: 1-6 Grading Method: Regular,
 Audit

Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.

Open only to non-thesis M.S. degree candidates.

Contact department for information to register for this course.

BCHM799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

BCHM889A Seminar; Biochemistry

Credits: 1 Grading Method: Regular,
 Audit

0101	George Lorimer	Seats (Total: 35)
	Tu 11:00am - 11:50am	Location: TBA

BCHM889B**Seminar**

Credits: 1-3

Grading Method: Regular,
Audit

0101

Instructor: TBA

Seats (Total: 10)

Contact instructor or department for details.

BCHM889D**Seminar; Enzymology of Recombination**

(Perm req)

Credits: 1

Grading Method: Regular,
Audit

0101

Instructor: TBA

Seats (Total: 5)

Contact instructor or department for details.

BCHM889F**Seminar; Bacterial Spores**

(Perm req)

Credits: 1

Grading Method: Regular,
Audit

0101

Instructor: TBA

Seats (Total: 5)

Contact instructor or department for details.

BCHM889G**Seminar; Biological Mass Spectrometry**

(Perm req)

Credits: 1

Grading Method: Regular,
Audit

0101

Instructor: TBA

Seats (Total: 5)

Contact instructor or department for details.

BCHM889M**Seminar; Modern Methods in NMR and Structural Biology**

Credits: 1

Grading Method: Regular,
Audit

0101

Instructor: TBA

Seats (Total: 10)

Contact instructor or department for details.

BCHM898**Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

BCHM899**Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.**BIOE****Bioengineering****Spring 2016****BIOE120****Biology for Engineers**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

0101	Birthe Kjellerup	Seats (Total: 40)		
	TuTh 2:00pm - 3:15pm	CHE 2108		
	Tu 5:00pm - 5:50pm	PLS 1119		Discussion
0102	Birthe Kjellerup	Seats (Total: 40)		
	TuTh 2:00pm - 3:15pm	CHE 2108		
	Th 5:00pm - 5:50pm	PLS 1119		Discussion
0201	Angela Jones	Seats (Total: 40)		
	MW 2:00pm - 3:15pm	CSS 2324		
	F 3:00pm - 3:50pm	CHE 2136		Discussion
0202	Angela Jones	Seats (Total: 40)		
	MW 2:00pm - 3:15pm	CSS 2324		
	F 4:00pm - 4:50pm	CHE 2136		Discussion

BIOE121**Biology for Engineers Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit*Restriction: Must be in Engineering: Bioengineering program.*

This course will build on the material covered in BIOE120. Experiments conducted in this laboratory course will cover topics such as biomechanical principles, biochemical methods, genetics and selection, scaling, microcosm interactions, human factors and imaging.

0101	Angela Jones M 10:00am - 10:50am Tu 10:00am - 12:00pm	Seats (Total: 20) CHE 2108 CHE 1145	Lab
0102	Angela Jones M 10:00am - 10:50am Tu 3:00pm - 5:00pm	Seats (Total: 20) CHE 2108 CHE 1145	Lab
0103	Angela Jones M 10:00am - 10:50am Th 10:00am - 12:00pm	Seats (Total: 20) CHE 2108 CHE 1145	Lab
0104	Angela Jones M 10:00am - 10:50am Th 3:00pm - 5:00pm	Seats (Total: 20) CHE 2108 CHE 1145	Lab

BIOE221 Introduction to the Bioengineering Major

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: BIOE120 and BIOE121. Restriction: Must be in a major within the ENGR-Fischell Department of Bioengineering department.

Introduces students to the bioengineering field through views from faculty, students, and professionals. Guides students through the BIOE major and elective tracks. Helps students with their own academic planning and career preparation.

0101	Tracy Chung W 5:00pm - 5:50pm	Seats (Total: 50) EGR 1108
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BIOE232 Bioengineering Thermodynamics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.

A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.

0101	Silvina Matysiak	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	EGR 1108	
	M 10:00am - 11:15am	CHM 0122	Discussion
0102	Silvina Matysiak	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	EGR 1108	
	W 10:00am - 11:15am	EGR 2116	Discussion

BIOE241

(Perm req)

Biocomputational Methods

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0201	Hubert Montas	Seats (Total: 40)	
	MWF 4:00pm - 4:50pm	KEB 2111	
0301	Hubert Montas	Seats (Total: 40)	
	MWF 3:00pm - 3:50pm	KEB 2111	

BIOE331

(Perm req)

Biofluids

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and must have completed or be concurrently enrolled in BIOE232. Restriction: Must be in Engineering: Bioengineering program; and permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE331, ENCE305, or ENME331.

Principles and applications of fluid mechanics with a focus on bioengineering topics. Content includes conservation of mass, momentum, and energy, as well as the application of these fundamental relations to hydrostatics, control volume analysis, internal and external flow, and boundary layers. Applications to biological and bioengineering problems such as tissue engineering, bioprocessing, imaging, and drug delivery.

0101	Keith Herold	Seats (Total: 30)	
	MW 12:30pm - 1:45pm	MCB 1207	
	F 1:00pm - 2:50pm	PLS 1119	Discussion
0102	Keith Herold	Seats (Total: 30)	
	MW 12:30pm - 1:45pm	MCB 1207	
	F 3:00pm - 4:50pm	KEB 1200	Discussion

BIOE332 Transport Process Design

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and must have completed or be concurrently enrolled in BIOE331 or ENME331; and permission of ENGR-Fischell Department of Bioengineering department.

Fluid flow, heat transfer, and mass transfer with applications in medicine, environment, biotechnology, food, agriculture, and other biosystems. Design of solutions to current problems in biological engineering is emphasized.

0101	Jose Aranda-Espinoza	Seats (Total: 45)	
	TuTh 9:30am - 10:45am	CHM 1402	
	Tu 2:00pm - 2:50pm	KEB 1200	Discussion
0102	Jose Aranda-Espinoza	Seats (Total: 45)	
	TuTh 9:30am - 10:45am	CHM 1402	
	Th 2:00pm - 2:50pm	CHM 1228	Discussion

BIOE340 Modeling Physiological Systems and Lab

(Perm req)

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI330, MATH246, BIOE120, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE340 or (BSCI440 and BSCI441).

Topics covered will include cell and general physiology, membrane physiology, blood cells and clotting, circulation, metabolism, respiration, and the nervous system. A lab component will also be included.

0101	Silvia Muro	Seats (Total: 20)
	MW 11:00am - 12:15pm	ITV 1111
	Tu 5:00pm - 6:15pm	KEB 2111
	W 5:00pm - 5:50pm	EGR 1104
		Lab
		Discussion
0102	Silvia Muro	Seats (Total: 20)
	MW 11:00am - 12:15pm	ITV 1111
	Tu 5:00pm - 6:15pm	KEB 2107
	M 5:00pm - 5:50pm	EGR 3114
		Lab
		Discussion

BIOE371 Linear Algebra and Ordinary Differential Equations for Bioengineering Applications

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH246. Restriction: Must be in Engineering: Bioengineering program. Credit only granted for: BIOE371, MATH461, MATH 341, or MATH 240.

This class utilizes fundamentals in linear algebra, including eigenvalues and eigenvectors, as well as linear differential equations, to study various problems in bioengineering and biological systems, with a particular emphasis on feedback, stability, controllability, and control design.

0101	Benjamin Shapiro	Seats (Total: 120)
	MW 4:00pm - 4:50pm	CHE 2110
	F 1:00pm - 2:50pm	CSS 2324
		Lab

BIOE399 Independent Study in Bioengineering

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Independent study.

Prerequisite: permission of department.

Contact department for information to register for this course.

BIOE399H Independent Study in Bioengineering

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Independent study.

Contact department for information to register for this course.

BIOE404**Biomechanics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, ENES102, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program.

Introduction to the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress and strain, multiaxial deformations, stress analysis, and viscoelasticity. Biomechanics of soft and hard tissues.

0101	Kimberly Stroka	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	HBK 0109

BIOE411**Tissue Engineering**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed at least one biology course; and MATH241. Recommended: BSCI330 and BIOE340. Also offered as: CHBE487. Credit only granted for: BIOE411 or CHBE487.

A review of the fundamental principles involved in the design of engineered tissues and organs. Both biological and engineering fundamentals will be considered.

0101	John Fisher	Seats (Total: 20)
	W 2:00pm - 4:30pm	CHE 2118

BIOE420**Bioimaging**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241; and permission of ENGR-Fischell Department of Bioengineering department. Restriction: Must be in Engineering: Bioengineering program.

Examines the physical principles behind major biomedical imaging modalities and new ways of using images for bio-related applications.

0101	Lan Ma	Seats (Total: 45)
	TuTh 3:30pm - 4:45pm	CSS 2324
	W 9:00am - 9:50am	ANS 0412 Discussion

0102	Lan Ma	Seats (Total: 45)	
	TuTh 3:30pm - 4:45pm	CSS 2324	
	W 10:00am - 10:50am	CHM 1224	Discussion

BIOE431 Fundamentals of Biosensor Techniques, Instrumentation, and Applications

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM135, PHYS161, PHYS261, and BSCI330. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

0101	Ian White	Seats (Total: 25)	
	MW 11:00am - 12:15pm	CHM 1228	

BIOE453 Biomaterials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM231, MATH246, CHEM232, BIOE120, BIOE121, and BIOE241. Corequisite: BIOE454. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Also offered as: ENMA425. Credit only granted for: ENBE453, BIOE453, or ENMA425. Formerly: ENBE453.

Examination of the structure and function of natural biomaterials, and cell-extracellular matrix interactions. Study physical properties of synthetic biomaterials for biomedical applications. Understanding molecular level interactions between biomolecules and biomaterials to design novel biomaterials with desirable characteristics. Application of biomaterials as implants, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds will be covered.

0101	Peter Kofinas	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	CHE 2110	
	M 10:00am - 10:50am	CHE 2145	Discussion
0102	Peter Kofinas	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	CHE 2110	
	M 4:00pm - 4:50pm	EGR 3114	Discussion

0103	Peter Kofinas	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	CHE 2110	
	F 10:00am - 10:50am	JMZ 2123	Discussion

BIOE457 Biomedical Electronics & Instrumentation

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BIOE120, BIOE121, BIOE241, and PHYS261. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Students learn fundamental concepts of electronics, assembly of electronic components into functional circuits, and integration of functional electronic devices and circuits into a system. In the lab component, students will learn to assemble and evaluate circuits and systems.

0101	Ian White	Seats (Total: 30)	
	MW 2:00pm - 3:15pm	PLS 1140	
	F 9:00am - 10:30am	ANS 0505	Lab
0102	Ian White	Seats (Total: 30)	
	MW 2:00pm - 3:15pm	PLS 1140	
	F 11:00am - 12:30pm	ANS 0505	Lab

BIOE486 Capstone Design II

(Perm req)

Credits: 3 Grading Method: Regular, CORE: CS
Pass-Fail, Audit

Prerequisite: Must have completed BIOE485 in the immediately preceding semester. Restriction: Senior standing; and must be in Engineering: Bioengineering program; and permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE486 or ENBE486. Formerly: ENBE486.

This is the second part of the senior capstone design course. This part is independent instruction where faculty mentoring each project team works with students to order supplies, fabricate their proposed design under BIOE485, test the design, write the report and present it to their fellow seniors and board of faculty mentors. Students are taught to convert the blue print of a design to actual device and test it.

Contact department for information to register for this course.

BIOE489E Special Topics in Bioengineering; Entrepreneurship in Chemical and Life Sciences

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Also offered as CHEM498E and ENES498E. Credit granted for BIOE489E or ENES498E or CHEM498E.

0101	Martha Connolly, Frederick Khachik, Ben Woodard	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 1108

BIOE489G Special Topics in Bioengineering; Synthetic Biology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Edward Eisenstein	Seats (Total: 30)
	Th 5:00pm - 7:45pm	JMP 1202

BIOE489I Special Topics in Bioengineering; optical microscopy

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

0101	Giuliano Scarcelli	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 0122

BIOE606 BIOE Graduate Studies II

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Restriction: Must be in ENGR: PhD Only-Bioengineering (Doctoral) program.

Second semester continued acclimation to the bioengineering graduate program. Students gain exposure to departmental research through lab rotation and to current research in the field through seminar.

0101	Yu Chen	Seats (Total: 20)
	F 1:00pm - 1:50pm	EGR 1110

BIOE608 Bioengineering Seminar Series

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

A variety of topics related to Bioengineering will be presented in weekly seminars.

Restriction: Must be in one of the following programs (ENGR: PhD Only-Bioengineering (Master's); ENGR: PhD Only-Bioengineering (Doctoral)).

0101	Christopher Jewell	Seats (Total: 40)
	F 9:00am - 9:50am	Location: TBA

BIOE631 Biosensor Techniques, Instrumentation, and Applications

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE631, BIOE689Z, or CHPH718Z. Formerly: BIOE689Z.

A thorough review of fundamental concepts of biosensing systems, principles of common detection methods, and modern applications of biosensors. Primarily literature driven. Students will obtain a detailed understanding of cutting-edge biosensing techniques, the instrumentation used, and the application space. Students also will develop skills in using current literature as a source of knowledge.

0101	Ian White	Seats (Total: 20)
	MW 11:00am - 12:15pm	CHM 1228
BI01	Ian White	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
<i>This section is restricted to Professional Master of Engineering or Graduate Certificate of Engineering students only.</i>		

BIOE640 Polymer Physics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENMA471; or permission of instructor. Also offered as: ENMA620. Credit only granted for: ENMA620 or BIOE640.

Graduate course covering theoretical aspects of the behavior of polymeric materials. It covers statistical properties and thermodynamics of single chain and multichain systems.

0101	Mohamad Al-Sheikhly	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	CHM 0119

BIOE689 Special Topics in Bioengineering

Credits: 1-3 Grading Method: Regular

Research Oriented Individual Instruction course.

Contact department for information to register for this course.

BIOE689E Special Topics in Bioengineering; Microscopic Structure and Function of Cells, Tissues and Organs

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

BI01	Peter Andrews	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

BIOE689G Special Topics in Bioengineering; Bioengineering of Exercise Response

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Jafar Vossoughi	Seats (Total: 25)
	Tu 5:00pm - 7:45pm	JMP 2202

BIOE689N Special Topics in Bioengineering; Bionanotechnology

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

Also offered as ENCH648N. Credit granted for ENCH648N or BIOE689N.

0101	Srinivasa Raghavan	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CHE 2110

BIOE689T Special Topics in Bioengineering; Biomaterials in Immunology and Immunotherapy

(Perm req)

Credits: 3 Grading Method: Regular

Research Oriented Individual Instruction course.

0101	Christopher Jewell	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	PLS 1111

BIOE799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-Fail
Contact department for information to register for this course.

BIOE898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail
Contact department for information to register for this course.

BIOE899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail
Contact department for information to register for this course.

BIOL Biology Spring 2016

BIOL600 Ethics in Scientific Research

(Perm req) Credits: 2 Grading Method: Regular

Restriction: Must have completed at least one year of graduate study. Credit only granted for: BIOL600 or ZOOL600. Formerly: ZOOL600.

Issues of scientific integrity with emphasis on investigators in the laboratory sciences, including mentoring, scientific record keeping, authorship and peer review, ownership of data, use of animals and humans in research, and conflict of interest.

Also offered as CHEM648E, NACS600, and PSYC788B. Credit granted for CHEM648E, NACS600, PSYC788B or BIOL600.

0101	Robert Dooling	Seats (Total: 20)
	W 3:00pm - 5:00pm	BPS 1208

BIOL608B Biology Seminar; Seminar in Behavior Ecology

(Perm req) Credits: 1 Grading Method: Regular

0101	Gerald Borgia	Seats (Total: 10)
	Contact instructor or department for details.	

BIOL608C Biology Seminar; Evolution of E. African Chichlids

Credits: 2 Grading Method: Regular

0101	Thomas Kocher	Seats (Total: 10)
	F 2:00pm - 4:00pm	BRB 2210

BIOL608Q Biology Seminar; Readings in Neurophysiology

(Perm req)

Credits: 1 Grading Method: Regular

0101	Elizabeth Quinlan	Seats (Total: 10)
	Contact instructor or department for details.	

BIOL609 Special Problems in Biology

Credits: 1-6 Grading Method: Regular

One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.

Contact department for information to register for this course.

BIOL708A Advanced Topics in Biology; Cell Biology

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

0101	Stephen Wolniak	Seats (Total: 8)
	TuTh 8:00am - 9:15am	PLS 1140

BIOL708E Advanced Topics in Biology; Diseases of the Nervous System

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

Also offered as NACS728N.

0101	Quentin Gaudry	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	MCB 1207

BIOL708M Advanced Topics in Biology; Mammalian Physiology

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

0101	Sergei Sukharev	Seats (Total: 2)
	MWF 9:00am - 9:50am	BPS 1250

BIOL708R Advanced Topics in Biology; Concepts in Plant & Animal Ecology

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

0101	Karen Lips	Seats (Total: 10)
	MW 9:30am - 10:45am	BPS 0283
	W 12:00pm - 12:50pm	BPS 2249 Discussion

BIOL708W Advanced Topics in Biology; Animal Communication

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

0101	Gerald Wilkinson	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	HBK 0115

BIOL708X Advanced Topics in Biology; Sexual Selection in Nature

Credits: 3 Grading Method: Regular

Lectures, experimental courses and other special instructions in various zoological subjects.

0101	Heidi Fisher	Seats (Total: 7)
	TuTh 12:30pm - 1:45pm	BPS 0283

BIOL709C Selected Advanced Topics in Biology; Population and Evolutionary Genetics

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses and other special instructions in various biological subjects.

Genetic variation within a population provides the basis for future evolution as well as a record of past evolution. The genomics revolution provides data on this variation that, together with mathematical models, allow us to read this record to reconstruct evolutionary trajectories. Examples will focus on hominin and pathogen evolution. In the lab, students will use models to explore how genetic variation (allele frequencies) changes over time and space.

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSAR

Prerequisite: MATH113 or MATH115. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON321, EDMS451, GEOG306, GVPT422, PSYC200, or SOCY201.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

0101	Christine Hakenkamp TuTh 12:30pm - 1:20pm M 9:00am - 9:50am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
0102	Christine Hakenkamp TuTh 12:30pm - 1:20pm M 10:00am - 10:50am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
0103	Christine Hakenkamp TuTh 12:30pm - 1:20pm M 11:00am - 11:50am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
0104	Christine Hakenkamp TuTh 12:30pm - 1:20pm Tu 8:30am - 9:20am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
0105	Christine Hakenkamp TuTh 12:30pm - 1:20pm Tu 9:30am - 10:20am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
0106	Christine Hakenkamp TuTh 12:30pm - 1:20pm Tu 11:00am - 11:50am	Seats (Total: 28) ARM 0135 ANS 0473	Discussion
SG91	Christine Hakenkamp M 10:00am - 10:50am F 9:00am - 9:50am F 10:00am - 10:50am <i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>	Seats (Total: 40) BLD3 2203 BLD3 2203 BLD3 2212	Discussion

BIPH698L Biophysics Seminar; Biophysics

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	PHY 0405

Contact department for information to register for this course.

Contact department for information to register for this course.

Contact department for information to register for this course.

0101	Leslie Pick	Seats (Total: 30)
	Meets March 19, 2016 - May 10, 2016	
	TBA	PLS 4102

Credits: 1-6 Grading Method: Regular, Satisfactory, Fail

1015	Alexandra Bely	Seats (Total: 3)
Contact instructor or department for details.		

BISI898
Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BISI899
Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

BMGT

Business and Management

Spring 2016

BMGT110
Introduction to the Business Value Chain

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

0101	Jeff Miller	Seats (Total: 250)
	TuTh 12:30pm - 1:45pm	VMH 1524
0201	Jeff Miller	Seats (Total: 250)
	MW 12:30pm - 1:45pm	VMH 1212

BMGT110S
Introduction to the Business Value Chain

Credits: 3 Grading Method: Regular CORE: IE

Restricted to College Park Scholars in Business, Society, and the Economy.

0101	Jeff Miller	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	KEY 0102
0201	Jeff Miller	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0102

BMGT190H Introduction to Design and Quality

Credits: 4

Grading Method: Regular

General Education: DSSP

*Restriction: Permission of BMGT-Robert H. Smith School of Business. Also offered as: ENES190.**Credit only granted for: BMGT190 or ENES190.**Exposes engineering and business students to the principles of total quality, using experiential team-learning and technology-aided approaches. The first of four courses in total quality.*

Restricted to QUEST program students. Also offered as ENES190H. Credit granted for ENES190H or BMGT190H.

0101	Pamela Armstrong	Seats (Total: 45)	
	TuTh 12:30pm - 1:45pm	VMH 1415	
	Tu 7:00pm - 8:50pm	VMH 1412	Discussion

BMGT210 Foundations of Accounting for Non Business Majors

Credits: 2

Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Course may be substituted for the General Business or Innovation and Entrepreneurship minor if a student completes both BMGT 220 and 221 (taking only one of these courses does not fulfill the minor course requirement). Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.

Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.

Restricted to Innovation & Entrepreneurship Minors.

BL01	Eugene Cantor	Seats (Total: 180)	
	Meets January 25, 2016 - March 12, 2016		
	MW 3:30pm - 4:45pm	VMH 1212	
	Class time/details on ELMs	ONLINE	

BMGT220 Principles of Accounting I

Credits: 3

Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Restricted to students with 24 credit hours completed. Where a BMGT exam conflicts with another regularly scheduled class, the student will be provided a makeup exam.

0101	Progyan Basu MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0102	Progyan Basu MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0103	Progyan Basu MW 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0104	Progyan Basu MW 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0105	Progyan Basu MW 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0106	Progyan Basu MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1212 VMH 1202	Discussion
0107	Progyan Basu MW 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1212 VMH 1303	Discussion
0201	Progyan Basu MW 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1206	Discussion
0202	Progyan Basu MW 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1206	Discussion
0203	Progyan Basu MW 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1206	Discussion

0204	Progyan Basu	Seats (Total: 30)	
	MW 9:30am - 10:45am	VMH 1524	
	F 12:00pm - 12:50pm	VMH 1206	Discussion
0205	Progyan Basu	Seats (Total: 30)	
	MW 9:30am - 10:45am	VMH 1524	
	F 1:00pm - 1:50pm	VMH 1206	Discussion
0206	Progyan Basu	Seats (Total: 30)	
	MW 9:30am - 10:45am	VMH 1524	
	F 2:00pm - 2:50pm	VMH 1206	Discussion
0207	Progyan Basu	Seats (Total: 30)	
	MW 9:30am - 10:45am	VMH 1524	
	F 2:00pm - 2:50pm	VMH 1307	Discussion

BMGT220H Principles of Accounting I

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

Restricted to Honors students with 24 hours completed.

0101	Stephen Brown	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	VMH 1336	

BMGT221 Principles of Accounting II

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Restricted to students with 24 credit hours completed. Where a BMGT exam conflicts with another regularly scheduled class, the student will be provided a makeup exam.

0101	Gary Bulmash TuTh 9:30am - 10:45am F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1303	Discussion
0102	Gary Bulmash TuTh 9:30am - 10:45am F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1303	Discussion
0103	Gary Bulmash TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1303	Discussion
0104	Gary Bulmash TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 30) VMH 1524 VMH 1303	Discussion
0105	Gary Bulmash TuTh 9:30am - 10:45am F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1524 VMH 1303	Discussion
0201	Gary Bulmash TuTh 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1307	Discussion
0202	Gary Bulmash TuTh 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1307	Discussion
0203	Gary Bulmash TuTh 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1307	Discussion
0204	Gary Bulmash TuTh 3:30pm - 4:45pm F 12:00pm - 12:50pm	Seats (Total: 30) VMH 1524 VMH 1307	Discussion
0205	Gary Bulmash TuTh 3:30pm - 4:45pm F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1524 VMH 1307	Discussion

0301	Gary Bulmash TuTh 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 30) VMH 1524 VMH 1336	Discussion
0302	Gary Bulmash TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 30) VMH 1524 VMH 1336	Discussion
0303	Gary Bulmash TuTh 2:00pm - 3:15pm F 11:00am - 11:50am	Seats (Total: 30) VMH 1524 VMH 1336	Discussion
0304	Gary Bulmash TuTh 2:00pm - 3:15pm F 12:00pm - 12:50pm	Seats (Total: 30) VMH 1524 VMH 1336	Discussion
0305	Gary Bulmash TuTh 2:00pm - 3:15pm F 1:00pm - 1:50pm	Seats (Total: 30) VMH 1524 VMH 1336	Discussion
0306	Gary Bulmash TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 30) VMH 1524 VMH 1336	Discussion

BMGT221H Principles of Accounting II

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220.

Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.

Restricted to Honors students with 24 hours completed. Where a BMGT exam conflicts with another regularly scheduled class, the student will be provided a makeup exam.

0101	Martin Loeb MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1418
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BMGT230 Business Statistics

Credits: 3 Grading Method: Regular

General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH220 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided with a makeup exam.

0101	Radu Lazar	Seats (Total: 32)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 8:00am - 8:50am	VMH 1415	Discussion
0102	Radu Lazar	Seats (Total: 32)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 9:00am - 9:50am	VMH 1415	Discussion
0103	Radu Lazar	Seats (Total: 17)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 10:00am - 10:50am	VMH 1415	Discussion
0104	Radu Lazar	Seats (Total: 32)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 11:00am - 11:50am	VMH 1415	Discussion
0105	Radu Lazar	Seats (Total: 17)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 12:00pm - 12:50pm	VMH 1415	Discussion
0106	Radu Lazar	Seats (Total: 32)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 1:00pm - 1:50pm	VMH 1415	Discussion
0107	Radu Lazar	Seats (Total: 32)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 2:00pm - 2:50pm	VMH 1415	Discussion

0201	Radu Lazar MW 11:00am - 12:15pm F 8:00am - 8:50am	Seats (Total: 32) VMH 1524 VMH 1314	Discussion
0202	Radu Lazar MW 11:00am - 12:15pm F 9:00am - 9:50am	Seats (Total: 20) VMH 1524 VMH 1314	Discussion
0203	Radu Lazar MW 11:00am - 12:15pm F 10:00am - 10:50am	Seats (Total: 32) VMH 1524 VMH 1314	Discussion
0204	Radu Lazar MW 11:00am - 12:15pm F 11:00am - 11:50am	Seats (Total: 17) VMH 1524 VMH 1314	Discussion
0205	Radu Lazar MW 11:00am - 12:15pm F 12:00pm - 12:50pm	Seats (Total: 32) VMH 1524 VMH 1314	Discussion
0206	Radu Lazar MW 11:00am - 12:15pm F 1:00pm - 1:50pm	Seats (Total: 18) VMH 1524 VMH 1314	Discussion
0207	Radu Lazar MW 11:00am - 12:15pm F 2:00pm - 2:50pm	Seats (Total: 32) VMH 1524 VMH 1314	Discussion
0301	Radu Lazar MW 2:00pm - 3:15pm F 8:00am - 8:50am	Seats (Total: 32) VMH 1524 VMH 1418	Discussion
0302	Radu Lazar MW 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 32) VMH 1524 VMH 1418	Discussion
0303	Radu Lazar MW 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 32) VMH 1524 VMH 1418	Discussion

0304	Radu Lazar	Seats (Total: 17)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 11:00am - 11:50am	VMH 1418	Discussion
0305	Radu Lazar	Seats (Total: 18)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 12:00pm - 12:50pm	VMH 1418	Discussion
0306	Radu Lazar	Seats (Total: 32)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 1:00pm - 1:50pm	VMH 1418	Discussion
0307	Radu Lazar	Seats (Total: 32)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 2:00pm - 2:50pm	VMH 1418	Discussion

BMGT230B Business Statistics

Credits: 3

Grading Method: Regular

General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH220 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and the application of these concepts to problem solving in business and management.

Restricted to BMGT majors. Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided a makeup exam.

0103	Radu Lazar	Seats (Total: 15)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 10:00am - 10:50am	VMH 1415	Discussion
0105	Radu Lazar	Seats (Total: 15)	
	MW 12:30pm - 1:45pm	VMH 1524	
	F 12:00pm - 12:50pm	VMH 1415	Discussion

0202	Radu Lazar	Seats (Total: 12)	
	MW 11:00am - 12:15pm	VMH 1524	
	F 9:00am - 9:50am	VMH 1314	Discussion
0204	Radu Lazar	Seats (Total: 15)	
	MW 11:00am - 12:15pm	VMH 1524	
	F 11:00am - 11:50am	VMH 1314	Discussion
0206	Radu Lazar	Seats (Total: 14)	
	MW 11:00am - 12:15pm	VMH 1524	
	F 1:00pm - 1:50pm	VMH 1314	Discussion
0304	Radu Lazar	Seats (Total: 15)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 11:00am - 11:50am	VMH 1418	Discussion
0305	Radu Lazar	Seats (Total: 14)	
	MW 2:00pm - 3:15pm	VMH 1524	
	F 12:00pm - 12:50pm	VMH 1418	Discussion

BMGT289A Social Enterprise: Changing the World through Innovation and Transformative Action

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSSP, SCIS

0101	Halley Aelion	Seats (Total: 65)	
	W 5:00pm - 7:40pm	TYD 2109	

BMGT289B How Do Innovators Think?

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Credit will be granted for only one of the following: BMGT289B or HONR289P. Evening guest speakers 6:30pm-9:15pm are on specific dates. Daytime meetings will be held every week.

0101	Mark Wellman	Seats (Total: 65)	
	W 10:00am - 11:50am	CCC 1205	
	W 6:30pm - 9:15pm	VMH 1212	
0201	Mark Wellman	Seats (Total: 65)	
	W 12:00pm - 1:50pm	CCC 1205	
	W 6:30pm - 9:15pm	VMH 1212	

BMGT289D Frauds, Scams, and Thefts: What, How and Why?

Credits: 3

Grading Method: Regular

General Education: DSSP,
SCIS

0101	David Weber	Seats (Total: 65)
	MW 5:00pm - 6:15pm	ASY 2309

BMGT289E Entrepreneurial Thinking for Non-Business Majors: How Not to Miss Great Opportunities Your Life Throws at You

Credits: 3

Grading Method: Regular

CORE: IE

General Education: DSSP,
SCIS

0101	Jonathan Aberman	Seats (Total: 65)
	MW 3:30pm - 4:45pm	TYD 2109

BMGT289F Is America Destined to Fall by 2076?

Credits: 3

Grading Method: Regular

General Education: DSSP,
SCIS

0101	James Spina	Seats (Total: 65)
	F 1:00pm - 3:30pm	VMH 1330

BMGT289K Giving Voice To Values

Credits: 3

Grading Method: Regular

General Education: DSSP,
SCIS

0101	Brian Nelson	Seats (Total: 65)
	TuTh 3:30pm - 4:45pm	ASY 1213

BMGT289L The Proper Role of Government in a Free Enterprise System

Credits: 3

Grading Method: Regular

CORE: SB

General Education: DSHS,
SCIS

0101	Leland Gardner	Seats (Total: 65)
	TuTh 8:00am - 9:15am	VMH 1330

BMGT289M European Debt Crisis: More Integration or Withering of a Dream?

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSSP, SCIS
0101	Ulrich Hewer, Donal Donovan M 5:00pm - 7:40pm	Seats (Total: 100) TWS 0310

BMGT301

Introduction to Information Systems

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

0101	Zeinab Karake TuTh 11:00am - 12:15pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412
0201	Zeinab Karake TuTh 3:30pm - 4:45pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412
0301	Zeinab Karake TuTh 12:30pm - 1:45pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412
0401	Zeinab Karake MW 9:30am - 10:45am <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412
0501	Philip Piety MW 11:00am - 12:15pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412

0601	Zeinab Karake MW 12:30pm - 1:45pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 60) VMH 1412
SG91	Thomas Martin TuTh 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 60) BLD2 2032
SG92	Donald Riley TuTh 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting and IB. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 60) BLD2 2032
SG93	Donald Riley TuTh 12:30pm - 1:45pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting and Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 60) BLD2 2032

BMGT301F Introduction to Information Systems

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMCS, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

Restricted to second year students in the Smith School's Smith Start Program (FPFF).

FP01	Zeinab Karake MW 8:00am - 9:15am	Seats (Total: 60) VMH 1412
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BMGT302**Designing Business Applications**

Credits: 3

Grading Method: Regular

Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in Computer Science program.

Provides an introduction to structured programming with business applications. Programming logic and data structures are introduced. The course especially emphasizes hands-on exercises using Excel macros and Visual Basic for Applications (VBA), and covers business functions and analytics.

Restricted to BMGT majors with 53 credit hours completed. Not open to Computer Science Majors.

0101	Woei-Jyh Lee	Seats (Total: 25)
	TuTh 9:30am - 10:45am	VMH 1311
	Th 5:00pm - 5:50pm	VMH 2203 Lab
0201	Kyungjin Yoo	Seats (Total: 25)
	MW 9:30am - 10:45am	VMH 1311
	Th 6:00pm - 6:50pm	VMH 2203 Lab
0301	Woei-Jyh Lee	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	VMH 1311
	Th 7:00pm - 7:50pm	VMH 2203 Lab
0401	Woei-Jyh Lee	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	VMH 2203
	Th 8:00pm - 8:50pm	VMH 2203 Lab

BMGT310**Intermediate Accounting I**

Credits: 3

Grading Method: Regular

Prerequisite: BMGT221.

Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.

Restricted to Accounting and Finance majors with 53 credit hours completed.

0101	Mary Keim	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	VMH 1307
0201	Rebecca Martin	Seats (Total: 40)
	MW 3:30pm - 4:45pm	VMH 1418

0301	Samuel Handwerger TuTh 2:00pm - 3:15pm	Seats (Total: 40) VMH 1330
0401	Mary Keim TuTh 12:30pm - 1:45pm	Seats (Total: 40) VMH 1335

BMGT311

Intermediate Accounting II

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310.

Continuation of BMGT310.

0101	Oliver Kim MW 12:30pm - 1:45pm <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 40) VMH 1206
0201	Oliver Kim MW 2:00pm - 3:15pm <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 40) VMH 1206
0301	Stephen Brown TuTh 12:30pm - 1:45pm <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 40) VMH 1202
0401	Stephen Brown TuTh 2:00pm - 3:15pm <i>Restricted to Accounting Majors with 60 credit hours completed.</i>	Seats (Total: 40) VMH 1303
SG91	Michael Finch MW 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD2 2052
SG92	Michael Finch MW 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD2 2052

BMGT313 Financial Statement Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.

Restricted to Finance or Accounting majors with 53 credit hours completed.

0101	Michael Finch TuTh 2:00pm - 3:15pm	Seats (Total: 40) VMH 1335
0201	Michael Finch TuTh 3:30pm - 4:45pm	Seats (Total: 40) VMH 1335

BMGT321 Managerial Accounting

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost budgeting, responsibility accounting and relevant costs for decision-making.

Restricted to BMGT majors with 53 credit hours completed.

0101	Shijun Cheng MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1335
0201	Shijun Cheng MW 11:00am - 12:15pm	Seats (Total: 40) VMH 1335
0301	Shijun Cheng MW 12:30pm - 1:45pm	Seats (Total: 40) VMH 1335

BMGT323 Taxation of Individuals

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions. Property coverage includes the tax consequences of sales and dispositions of investment and business assets. Both tax planning and compliance issues are covered.

0101	Leslie Mostow MW 2:00pm - 3:15pm <i>Restricted to Accounting majors with 53 credit hours completed.</i>	Seats (Total: 40) VMH 1418
0201	Howard Weiner TuTh 9:30am - 10:45am <i>Restricted to Accounting majors with 53 credit hours completed.</i>	Seats (Total: 40) VMH 1202
0301	Peter Ford MW 5:00pm - 6:15pm <i>Restricted to Accounting majors with 53 credit hours completed.</i>	Seats (Total: 40) VMH 1307
SG91	Alexander Ruygrok MW 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD2 3052
SG92	Alexander Ruygrok MW 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD2 3052

BMGT326

Accounting Systems

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT201 or BMGT301).

A study of accounting systems and computer and communications technology.

0101	Sebahattin Demirkan TuTh 9:30am - 10:45am <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 45) VMH 1333
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0201	Sebahattin Demirkan TuTh 3:30pm - 4:45pm <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 45) VMH 1330
0301	Sebahattin Demirkan TuTh 12:30pm - 1:45pm <i>Restricted to Accounting majors with 60 credit hours completed.</i>	Seats (Total: 45) VMH 1206
SG91	Lei Zhou MW 9:30am - 10:45am <i>Restricted to Senior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD3 4220
SG92	Lei Zhou MW 11:00am - 12:15pm <i>Restricted to Senior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 40) BLD3 4220

BMGT332 Operations Research For Management Decisions

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department.

Surveys the philosophy, techniques and applications of operations research to managerial decision-making. Techniques covered include: linear programming, transportation and assignment models, Markov processes and inventory and queuing models. Emphasis is placed on formulating and solving decision problems in the functional areas of management.

Restricted to BMGT majors and QUEST program students with 53 credit hours completed.

0101	Mustafa Sahin TuTh 2:00pm - 3:15pm	Seats (Total: 45) VMH 1418
0201	Kazim Ruhi TuTh 3:30pm - 4:45pm	Seats (Total: 45) VMH 1418

BMGT340 Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to BMGT majors with 53 credit hours completed. Interested students who don't meet restrictions should review their eligibility for BMGT340N. Meets in a blended format. Approximately half of the scheduled face-to-face course meetings will be replaced by asynchronous online activities, including video lectures, quizzes, and graded assignments.

BL01	Karen Hallows MW 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 50) VMH 1330 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL02	Karen Hallows MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) VMH 1330 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL03	Karen Hallows TuTh 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 60) VMH 1333 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL04	Michael Padhi MW 5:00pm - 6:15pm Class time/details on ELMs	Seats (Total: 60) VMH 1412 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL05	Karen Hallows TuTh 12:30pm - 1:45pm Class time/details on ELMs	Seats (Total: 60) VMH 1333 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL06	Karen Hallows TuTh 5:00pm - 6:15pm Class time/details on ELMs	Seats (Total: 60) VMH 1303 ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

BL07	Karen Hallows	Seats (Total: 60)
	TuTh 3:30pm - 4:45pm	VMH 1303
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

BMGT340N Business Finance

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221; and (BMGT231 or BMGT230).

Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

Restricted to Agricultural and Resource Economics majors (0111C) with 53 credit hours completed.

BL01	Karen Hallows	Seats (Total: 10)
	MW 2:00pm - 3:15pm	VMH 1330
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

BMGT341 Financial Markets

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in BMGT340. Formerly: BMGT498G.

Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.

Restricted to Finance majors with 60 credits completed.

0101	Julie Pavlovsky	Seats (Total: 41)
	TuTh 11:00am - 12:15pm	VMH 1415

BMGT341F Financial Markets

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in BMGT340. Formerly: BMGT498G.

Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.

FP01	Julie Pavlovsky	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	VMH 1333
	<i>Restricted to Wall Street Fellows.</i>	

BMGT342F

Wall Street Finance

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT448F or BMGT342. Formerly: BMGT448F.

Using concepts and tools of finance, students will examine a wide range of business problems and explore possible solutions. The course is designed to improve a student's problem solving capabilities, business writing and communication skills, teamwork, and planning skills. Students will also gain experience in analyzing issues frequently faced by financial decision-makers.

Restricted to Junior Wall Street Fellows (FPWS)

FP01	Julie Pavlovsky	Seats (Total: 35)
	TuTh 9:30am - 10:45am	VMH 1415

BMGT343

Investments

Credits: 3

Grading Method: Regular

Prerequisite: BMGT340.

An introduction to financial investments. Topics include: securities and securities markets; investment risks, returns and constraints; portfolio policies; and institutional investment policies.

Restricted to Finance majors with 60 credit hours completed.

0101	Xiaohui Bakshi	Seats (Total: 40)
	TuTh 9:30am - 10:45am	VMH 1303
0201	Xiaohui Bakshi	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	VMH 1336
0301	Mark Loewenstein	Seats (Total: 40)
	MW 12:30pm - 1:45pm	VMH 1333

0401	Russell Wermers MW 9:30am - 10:45am	Seats (Total: 40) VMH 1411
0501	Russell Wermers MW 8:00am - 9:15am	Seats (Total: 40) VMH 1333

BMGT345 Foundations of Financial Management for Non Business Majors

Credits: 2 Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT340 for General Business minor or Innovation and Entrepreneurship minor students only.

Provides students an overview of financial management. Students will understand how to accomplish the firm goal of maximizing shareholder value, learn how to conduct a financial statement analysis, and recognize its various elements, including profitability, credit risk, revenue, assets, liability, and cash flows. Understand the relationship between risk and return and how it impacts investment and corporate decisions.

Restricted to Innovation & Entrepreneurship Minors (BU03).

BL01	Elinda Kiss Meets March 21, 2016 - May 10, 2016 MW 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 180) VMH 1212 ONLINE
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BMGT349F Private Equity and Venture Capital; Private Equity and Venture Capital

(Perm req)

Credits: 3 Grading Method: Regular

The New Markets Private Equity/Venture Capital Clinic allows students to gain professional experience commensurate with that of an Associate in a Venture Capital Firm. Students are trained to buy, own, actively manage and sell high growth technology companies in private transactions. The class format includes: lectures; presentations from guest speakers, including the regions leading CEOs, private equity and service providers; and a series of facilitated exercises that simulate buying, owning and selling businesses. The course exposes students to real life activities covering the entire deal process from market research, diligence, selection, negotiation valuing, and structuring an investment, as well as management, growth and exit of portfolio companies.

Restricted to students in the Private Equity and Venture Capital Clinic (FPPE) fellows program.

FP01	Mark Grovic	Seats (Total: 12)
	Tu 12:30pm - 3:00pm	VMH 2505
	Contact instructor or department for details.	

BMGT350

Marketing Principles and Organization

Credits: 3

Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT 350N.

BL01	Henry Boyd	Seats (Total: 60)
	M 9:30am - 10:45am	VMH 1330
	Class time/details on ELMs	ONLINE
BL02	Henry Boyd	Seats (Total: 60)
	M 11:00am - 12:15pm	VMH 1330
	Class time/details on ELMs	ONLINE
BL03	Henry Boyd	Seats (Total: 60)
	M 2:00pm - 3:15pm	VMH 1412
	Class time/details on ELMs	ONLINE
BL04	Roxanne Lefkoff	Seats (Total: 60)
	W 3:30pm - 4:45pm	VMH 1412
	Class time/details on ELMs	ONLINE
BL05	Roxanne Lefkoff	Seats (Total: 50)
	W 9:30am - 10:45am	VMH 1330
	Class time/details on ELMs	ONLINE
BL06	Roxanne Lefkoff	Seats (Total: 60)
	W 11:00am - 12:15pm	VMH 1330
	Class time/details on ELMs	ONLINE

BL07	Roxanne Lefkoff	Seats (Total: 60)
	W 2:00pm - 3:15pm	VMH 1412
	Class time/details on ELMs	ONLINE

BMGT350N Marketing Principles and Organization

Credits: 3 Grading Method: Regular

Prerequisite: ECON200 or ECON205.

An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to Agricultural and Resource Economics (0111C) and Horticulture (0107C) majors with 53 credit hours completed.

BL05	Roxanne Lefkoff	Seats (Total: 10)
	W 9:30am - 10:45am	VMH 1330
	Class time/details on ELMs	ONLINE

BMGT352 Customer-Centric Innovation

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Addresses the management of new products and services with a focus on the innovation process, specifically the development and launching of new products or services: Opportunity Identification, Concept Generation, Design, Testing and Launch.

Restricted to BMGT majors or students in the QUEST program with 60 credit hours completed.

0101	Yogesh Joshi	Seats (Total: 35)
	TuTh 9:30am - 10:45am	VMH 1206

BMGT352M Customer-Centric Innovation

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Addresses the management of new products and services with a focus on the innovation process, specifically the development and launching of new products or services: Opportunity Identification, Concept Generation, Design, Testing and Launch.

Restricted to Innovation & Entrepreneurship Minors (BU03).

0101	Yogesh Joshi	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	TWS 0310

BMGT353 Retail Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT220 and BMGT350.

Planning and implementing retail marketing strategy. Store and nonstore (catalog, internet) retailing. Evaluation of how environmental trends in the consumer market, competition, the economy and technology affect retail strategy in the U.S. and global market.

Restricted to BMGT majors with 60 credit hours completed.

0101	Robert Fiddler	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	VMH 1202

BMGT355 Foundations of Marketing for Non Business Majors

Credits: 2 Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT350 for General Business minor or Innovation and Entrepreneurship minor students only.

Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.

Restricted to General Business Minors (BU02).

BL01	Mary Harms	Seats (Total: 60)
	Meets January 25, 2016 - March 12, 2016	
	M 2:00pm - 3:15pm	TWS 1100
	Class time/details on ELMs	ONLINE
BL02	Mary Harms	Seats (Total: 60)
	Meets January 25, 2016 - March 12, 2016	
	W 2:00pm - 3:15pm	TWS 1100
	Class time/details on ELMs	ONLINE

BL03	Mary Harms	Seats (Total: 60)
	Meets January 25, 2016 - March 12, 2016	
	M 3:30pm - 4:45pm	TWS 1100
	Class time/details on ELMs	ONLINE

BMGT360 Strategic Management of Human Capital

Credits: 3 Grading Method: Regular

Provides students with the basic knowledge needed to help organizations attract, select, develop, engage, evaluate, and retain talent. Topics covered may include strategic HRM, the role of globalization, legal issues in HRM, work analysis, HR planning, recruitment, personnel selection, performance management and appraisal, training and development, career development, compensation systems, motivating and rewarding performance, labor relations, and employee health and safety.

Restricted to students with 53 credit hours completed.

0101	James Spina	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1212
	F 9:00am - 9:50am	VMH 1411 Discussion
0102	James Spina	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1212
	F 10:00am - 10:50am	VMH 1411 Discussion
0103	James Spina	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1212
	F 11:00am - 11:50am	VMH 1411 Discussion
0104	James Spina	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1212
	F 12:00pm - 12:50pm	VMH 1411 Discussion

BMGT362 Labor Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A study of the development and methods of organized groups in industry with reference to the settlement of labor disputes. An economic and legal analysis of labor union and employer association activities, arbitration, mediation and conciliation collective bargaining, trade agreements, strikes, boycotts, lockouts, company unions, employee representation and injunctions.

Contact department for information to register for this course.

BMGT363 Leadership and Teamwork in Organizations

Credits: 3 Grading Method: Regular

Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.

0101	Gosia Langa	Seats (Total: 45)
	MW 5:00pm - 6:15pm	VMH 1303
<i>Restricted to Management, & Entrepreneurship majors (0503G, 0503E) with 53 credit hours completed.</i>		
SG91	Gosia Langa	Seats (Total: 60)
	MW 11:00am - 12:15pm	BLD3 2230
<i>Restricted to Senior BMGT-Shady Grove students majoring in Management and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT363F Leadership and Teamwork in Organizations

(Perm req)

Credits: 3 Grading Method: Regular

Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.

SG91	Myeong-Gu Seo	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	BLD2 2062
	Th 3:30pm - 4:30pm	BLD2 2062 Lab

BMGT364 Managing People and Organizations

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to BMGT majors with 53 credit hours completed. This course requires the purchase of course materials other than standard textbooks for in class simulations. Students will be required to purchase these materials directly from the simulation publisher(s) at a cost of approximately \$20(discounts applied for number of students enrolled in course). More information on purchasing these materials will be available when the course begins.

0101	Hannah Weiser MW 9:30am - 10:45am	Seats (Total: 60) VMH 1303
0201	Marko Pitesa MW 11:00am - 12:15pm	Seats (Total: 60) VMH 1303
0301	Patricia Cleveland TuTh 12:30pm - 1:45pm	Seats (Total: 40) VMH 1212
0401	Marko Pitesa MW 2:00pm - 3:15pm	Seats (Total: 60) VMH 1303
0501	Marko Pitesa MW 3:30pm - 4:45pm	Seats (Total: 60) VMH 1303
0601	Lori Spina TuTh 9:30am - 10:45am	Seats (Total: 60) VMH 1212
0701	Lori Spina TuTh 11:00am - 12:15pm	Seats (Total: 60) VMH 1212

BMGT364H Managing People and Organizations

(Perm req)

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	Patricia Cleveland TuTh 3:30pm - 4:45pm	Seats (Total: 35) VMH 1333
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BMGT364N Managing People and Organizations

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

Restricted to Agricultural and Resource Economics (0111C) and Dietetics (1307D) majors with 53 credit hours completed. This course requires the purchase of course materials other than standard textbooks for in class simulations. Students will be required to purchase these materials directly from the simulation publisher(s) at a cost of approximately \$20(discounts applied for number of students enrolled in course). More information on purchasing these materials will be available when the course begins.

0301	Patricia Cleveland	Seats (Total: 22)
	TuTh 12:30pm - 1:45pm	VMH 1212

BMGT365 Entrepreneurial Finance and Private Equity

Credits: 3 Grading Method: Regular

Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher. Credit only granted for: BMGT365, ENES466 or HLMN471.

Studies venture capital and private equity using a combination of cases lectures and guest speakers. Addresses how venture capitalists provide capital to start-up firms in growing industries and how private equity markets provide capital to help established medium-sized firms (often family businesses) grow and restructure. Focuses on how financial, legal, and economic issues are dealt with in the financial contracts between venture capitalists and their limited partners and between capitalists (or other private equity investors) and the firms in which they invest.

0101	Alfonso Ventoso	Seats (Total: 40)
	M 7:00pm - 9:40pm	VMH 1307
<i>Restricted to Smith School of Business majors with 72 credit hours completed and Innovation and Entrepreneurship minors (#BU03).</i>		
SG91	Alfonso Ventoso	Seats (Total: 40)
	Tu 6:15pm - 8:55pm	BLD2 2062
<i>Restricted to Junior BMGT-Shady Grove students majoring in Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT367 Career Search Strategies in Business

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.

Restricted to BMGT students with 45 credit hours completed.

0101	Erin Saddler, Nina Maggio M 5:00pm - 5:50pm	Seats (Total: 50) VMH 1333
0201	Kevin Gerrity, Erin Saddler Tu 5:00pm - 5:50pm	Seats (Total: 50) VMH 1212
0301	Erin Saddler, Jason Jones W 5:00pm - 5:50pm	Seats (Total: 50) VMH 1333
0401	Dennis Strzegowski, Erin Saddler Th 5:00pm - 5:50pm	Seats (Total: 50) VMH 1212
0601	Theresa Bradley, Erin Saddler M 6:00pm - 6:50pm	Seats (Total: 50) VMH 1330

BMGT367F Career Search Strategies in Business

Credits: 1 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.

Restricted to students in the Smith School's Smith Start Program (FPFF).

FP01	Erin Saddler, Haley Snyder M 5:00pm - 5:50pm	Seats (Total: 40) VMH 1415
FP02	Erin Saddler, Elmer Cherry M 6:00pm - 6:50pm	Seats (Total: 40) VMH 1415
FP03	Susan Powell, Erin Saddler Tu 5:00pm - 5:50pm	Seats (Total: 40) VMH 1412

FP04	Susan Powell, Erin Saddler Tu 6:00pm - 6:50pm	Seats (Total: 40) VMH 1412
FP05	Rachel Henderson, Erin Saddler W 5:00pm - 5:50pm	Seats (Total: 40) VMH 1206
FP06	Erin Saddler, Kevin Wright W 5:00pm - 5:50pm	Seats (Total: 40) VMH 1330
FP07	Megan Johnson, Erin Saddler W 6:00pm - 6:50pm	Seats (Total: 40) VMH 1330
FP08	Erin Saddler, Fauzaini Asikin Th 5:00pm - 5:50pm	Seats (Total: 40) VMH 1412
FP09	Erin Saddler, Michelle Doan Th 6:00pm - 6:50pm	Seats (Total: 40) VMH 1412
FP10	Erin Saddler, Elmer Cherry Th 5:00pm - 5:50pm	Seats (Total: 40) VMH 1418
FP11	Erin Saddler, Katherine Bosch W 6:00pm - 6:50pm	Seats (Total: 40) VMH 1206
FP12	Michael Poerksen, Erin Saddler M 5:00pm - 5:50pm	Seats (Total: 40) VMH 1330

BMGT369A Experiential Learning in Business Innovation and Entrepreneurship

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Selected experiential learning opportunities in business innovation and entrepreneurship

Prerequisite: BMGT497. Restricted to General Business Minors (BU02).

BL01	Protiti Dastidar Meets March 13, 2016 - May 10, 2016 Tu 3:30pm - 4:45pm Class time/details on ELMs <i>Restricted to General Business Minors (BU02)</i>	Seats (Total: 90) ASY 2203 ONLINE
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BL02	Protiti Dastidar	Seats (Total: 90)
	Meets March 13, 2016 - May 10, 2016	
	Th 3:30pm - 4:45pm	ASY 2203
	Class time/details on ELMs	ONLINE

BMGT369B Experiential Learning in Business Innovation and Entrepreneurship; Investigation Colloquium

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Selected experiential learning opportunities in business innovation and entrepreneurship

Restricted to General Business Minors and Innovation and Entrepreneurship Minors. Please contact Melanie Ashton (melanie_ashton@rhsmith.umd.edu) for permission to register.

0101	Protiti Dastidar	Seats (Total: 30)
	Contact instructor or department for details.	

BMGT370 Introduction to Transportation

Credits: 3 Grading Method: Regular

An overview of the transportation field with an emphasis on freight movements from the perspective of both providers of capacity and users of freight services. Examines the characteristics of the freight modes and the role of each mode as a major component of logistics and supply chain management. Explores the economics, energy use, and finances of each mode as well as the impact of government policies on each mode's future. Discussion of infrastructure and capacity needs of the transportation system and its ability to support the economy.

Restricted to BMGT students with 53 credit hours completed.

0101	Geoffrey Milsom	Seats (Total: 45)
	MW 8:00am - 9:15am	VMH 1418
0201	Geoffrey Milsom	Seats (Total: 45)
	MW 9:30am - 10:45am	VMH 1418

BMGT372 Introduction to Logistics and Supply Chain Management

Credits: 3 Grading Method: Regular

Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.

0201	Angelisa Gillyard TuTh 12:30pm - 1:45pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 45) VMH 1303
0301	Jeff Miller MW 11:00am - 12:15pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 45) VMH 1212
0401	Jeff Miller MW 2:00pm - 3:15pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 45) VMH 1202
0501	Jeff Miller MW 3:30pm - 4:45pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 45) VMH 1202
SG91	Richard Hutchins MW 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Management, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 50) BLD2 2062
SG92	Richard Hutchins MW 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Management, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 50) BLD2 2062

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.

0101	Burt Leete MW 9:30am - 10:45am	Seats (Total: 60) VMH 1333
0201	Burt Leete MW 11:00am - 12:15pm	Seats (Total: 54) VMH 1333
0301	Richard Daniels MW 3:30pm - 4:45pm	Seats (Total: 60) VMH 1333
0401	William McClenahan TuTh 11:00am - 12:15pm	Seats (Total: 60) VMH 1330
0501	Justin Reyna TuTh 2:00pm - 3:15pm	Seats (Total: 60) VMH 1412
0601	Brian Nelson TuTh 9:30am - 10:45am	Seats (Total: 60) VMH 1330

BMGT380H Business Law I

(Perm req)

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to BMGT Honors students with 53 credit hours completed.

0101	William McClenahan MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1336
<i>Restricted to BMGT majors with 53 credit hours completed.</i>		

BMGT380N Business Law I

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

Restricted to Agricultural and Resource Economics (0111C) majors with 53 credit hours completed.

0201	Burt Leete	Seats (Total: 6)
	MW 11:00am - 12:15pm	VMH 1333

BMGT385 Operations Management

Credits: 3 Grading Method: Regular

Credit only granted for: BMGT385 or ENME426.

Studies the design, management and improvement of a firm's processes and systems for creation and delivery of products and services. Includes strategic and operational views of supply chain, product development, and capacity analysis, highlighting the competitive advantages that operations management can provide the firm.

Restricted to BMGT majors and QUEST program students with 53 credit hours completed.

0101	Kazim Ruhi	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	VMH 1303

BMGT390H Systems Thinking for Managerial Decision Making

Credits: 3 Grading Method: Regular

Prerequisite: ENES190 or BMGT190; and must be a QUEST student. Also offered as: ENES390.

Credit only granted for: BMGT390, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

Restricted to QUEST program students. Also offered as ENES390H. Credit granted for ENES390H or BMGT390H.

0101	Jose Suarez	Seats (Total: 45)
	MW 11:00am - 12:15pm	VMH 1415

BMGT392 Introduction to International Business Management

Credits: 3 Grading Method: Regular

Prerequisite: ECON200.

A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.

0101	Yanan Wang TuTh 2:00pm - 3:15pm <i>Restricted to BMGT majors with 53 credit hours completed.</i>	Seats (Total: 40) VMH 1202
SG91	Wilbur Chung MW 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Management, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove</i>	Seats (Total: 50) BLD3 3220
SG92	Wilbur Chung MW 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Management, International Business, and Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove</i>	Seats (Total: 50) BLD3 3220

BMGT395

Foundations of Management for Non Business Majors

Credits: 2 Grading Method: Regular

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not have completed BMGT364; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT395 or BMGT364. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT364 for General Business minor or Innovation and Entrepreneurship minor students only.

Introduces concepts related to organization behavior. Topics include leadership, team decision making and management, conflict resolution and negotiations, organizational culture, and organization change. Students will learn how to apply those concepts and theories to understanding and critically analyzing various individual, interpersonal, group, and organizational management processes.

Restricted to General Business Minors (BU02)

BL01	Nicole Coomber Meets March 21, 2016 - May 10, 2016 M 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 60) TWS 1100 ONLINE
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BL02	Nicole Coomber Meets March 21, 2016 - May 10, 2016 W 2:00pm - 3:15pm Class time/details on ELMs	Seats (Total: 60) TWS 1100 ONLINE
BL03	Nicole Coomber Meets March 21, 2016 - May 10, 2016 M 3:30pm - 4:45pm Class time/details on ELMs	Seats (Total: 60) TWS 1100 ONLINE

BMGT397 Mentoring Design and Quality Teams

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

0101	Pamela Armstrong Tu 6:00pm - 8:50pm	Seats (Total: 10) VMH 1415
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BMGT398 Individual Study in Business and Management

(Perm req)

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

BMGT398A Individual Study in Business and Management; Internship

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Restricted to Smith School of Business students. Interested students should contact Erin Fields Saddler (esaddler@rhsmith.umd.edu) for details and permission.

0101	Erin Saddler, Jeffrey Kudisch Contact instructor or department for details.	Seats (Total: 30)
SG91	Erin Saddler, Jeffrey Kudisch Contact instructor or department for details.	Seats (Total: 15)

BMGT398E Individual Study in Business and Management; Maryland Social Entrepreneur Corps I

Credits: 2 Grading Method: Regular

Also offered as AMST398Z. Credit granted for BMGT398E or AMST398Z. Restricted to students participating in the Maryland Social Entrepreneur Corps program. Participating students will be automatically enrolled in the course by Education Abroad. For more information about the program, please contact Jennifer Precht in Education Abroad (jprecht@umd.edu).

EA05	Sara Herald	Seats (Total: 45)
	Meets March 21, 2016 - May 6, 2016	
	W 5:00pm - 8:35pm	VMH 1418

BMGT398J Individual Study in Business and Management; Preparing for a Global Internship

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

BMGT398L Individual Study in Business and Management; Innovating University Business Processes

(Perm req)

Credits: 2 Grading Method: Regular

Contact department for information to register for this course.

BMGT402 Database Systems

Credits: 3 Grading Method: Regular

Recommended: BMGT302.

The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.

Restricted to BMGT majors and Business Analytics minors with 72 credit hours completed.

0101	Che-Wei Liu	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	VMH 1311
	Th 5:00pm - 5:50pm	VMH 1311 Lab
0201	Yang Pan	Seats (Total: 35)
	MW 12:30pm - 1:45pm	VMH 1311
	Tu 5:00pm - 5:50pm	VMH 1311 Lab

BMGT402F Database Systems

Credits: 3 Grading Method: Regular

Recommended: BMGT302.

The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.

Restricted to students in the Technology and Business Transformation Fellows (FPTT).

FP01	Louiqa Raschid	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	VMH 1311	
	Th 6:00pm - 6:50pm	VMH 1311	Lab

BMGT403 Systems Analysis and Design

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301; or students who have taken courses with comparable content may contact the department. Recommended: BMGT302.

Techniques and tools applicable to the analysis and design of computer-based information systems. System life cycle, requirements analysis, logical design of databases and performance evaluation. Emphasis on case studies. Project required that involves the design, analysis and implementation of an information system.

Restricted to BMGT majors with 72 credit hours completed.

0101	Hassan Ibrahim	Seats (Total: 35)	
	MW 12:30pm - 1:45pm	VMH 2203	
0201	Hassan Ibrahim	Seats (Total: 35)	
	Tu 7:00pm - 9:40pm	VMH 2203	

BMGT404 Developing Applications for Decision Analytics

Credits: 3 Grading Method: Regular

Prerequisite: BMGT301.

Understand the principles of data science and business analytics to collect, analyze and visualize business data. Students will learn the use of industry standard software with applications in finance, accounting, marketing and operations.

Restricted to BMGT majors and Business Analytics minors with 72 credit hours completed.

0101	Kunpeng Zhang	Seats (Total: 30)
	MW 2:00pm - 3:15pm	VMH 1311

BMGT407 Information Systems Projects

Credits: 3 Grading Method: Regular

Prerequisite: BMGT402 and BMGT403. Restriction: Senior standing.

Senior capstone course for the decision and information sciences major. Collected knowledge from the DIS courses and application to significant problems of size and complexity. State-of-the-art research ideas and current business and industrial practices in information systems.

Restricted to Information Systems majors with 86 credit hours completed.

0101	Hassan Ibrahim	Seats (Total: 35)
	MW 11:00am - 12:15pm	VMH 1311
0201	Hassan Ibrahim	Seats (Total: 35)
	MW 5:00pm - 6:15pm	VMH 1311
0301	Hassan Ibrahim	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	VMH 1311

BMGT408D Emerging Topics in Information Systems; Google Challenge and Analytics

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics covering emerging developments in the field of decision and information technologies.

Prerequisite: BMGT301. Restricted to BMGT majors with 72 credit hours completed.

0101	Sunil Mithas	Seats (Total: 20)
	TuTh 2:00pm - 4:00pm	VMH 2203

BMGT410 Government Accounting

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

An introduction to the theory and practice of accounting and financial reporting as applied in both federal and state/local governments, with a focus on generally accepted accounting principles applicable in each. Topics include analyzing transactions; recognizing transactions in the accounting cycles; and preparing and analyzing financial statements and the overall financial reports at both the federal and state/local government levels.

Restricted to Accounting majors with 60 credit hours completed.

0101	Gary Bulmash	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	VMH 1418
SG91	Gary Bulmash	Seats (Total: 40)
	MW 2:00pm - 3:15pm	BLD2 2052

BMGT411

Ethics and Professionalism in Accounting

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311. Restriction: Must be in Accounting program.

Analysis and discussion of issues relating to ethics and professionalism in accounting.

0101	Jim Staihar	Seats (Total: 40)
	MW 2:00pm - 3:15pm	VMH 1415
	<i>Restricted to Accounting majors with 86 credit hours completed.</i>	
0201	Jim Staihar	Seats (Total: 40)
	MW 3:30pm - 4:45pm	VMH 1415
	<i>Restricted to Accounting majors with 86 credit hours completed.</i>	
0301	Jim Staihar	Seats (Total: 40)
	MW 12:30pm - 1:45pm	VMH 1415
	<i>Restricted to Accounting majors with 86 credit hours completed.</i>	
0401	Stephen Loeb	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	VMH 1307
	<i>Restricted to Accounting majors with 86 credit hours completed.</i>	
SG91	David Weber	Seats (Total: 40)
	MW 9:30am - 10:45am	BLD3 4212
	<i>Restricted to Senior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	

SG92	David Weber	Seats (Total: 40)
	MW 11:00am - 12:15pm	BLD3 4212
<i>Restricted to Senior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT417 Taxation of Corporations, Partnerships and Estates

Credits: 3 Grading Method: Regular

Prerequisite: BMGT221.

Federal taxation of corporations using the life-cycle approach-formation, operation, assessment, merger, reorganization and liquidation. Overviews of pass-through entities - partnerships and s-corporations -using the life-cycle approach, and the tax consequences of wealth transfers by individuals - gift and estate taxation. Both tax planning and compliance issues are addressed.

0101	Eugene Cantor	Seats (Total: 25)
	MW 9:30am - 10:45am	VMH 1335
<i>Restricted to Accounting majors with 84 credit hours completed.</i>		
0201	Eugene Cantor	Seats (Total: 25)
	MW 12:30pm - 1:45pm	VMH 1202
<i>Restricted to Accounting majors with 84 credit hours completed.</i>		
SG91	Alexander Ruygrok	Seats (Total: 40)
	MW 12:30pm - 1:45pm	BLD2 3052
<i>Restricted to Senior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT422 Auditing Theory and Practice

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310; and must have completed or be concurrently enrolled in BMGT311.

A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests and report forms and opinions.

Restricted to Accounting majors.

0101	Mary Keim	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	VMH 1336

0201	James McKinney	Seats (Total: 45)
	MW 12:30pm - 1:45pm	VMH 1307
0301	James McKinney	Seats (Total: 45)
	MW 2:00pm - 3:15pm	VMH 1307

BMGT423 Fraud Examination

Credits: 3 Grading Method: Regular

Prerequisite: BMGT310.

Covers fraud prevention, detection and investigation techniques. The traditional accounting areas of fraud-fraudulent financial accounting and misappropriation of assets as well as recent and historical cases of fraud will also be examined. Current fraud topics will be discussed.

Restricted to Accounting majors with 60 hours credit hours completed.

0101	Sandra Rose	Seats (Total: 45)
	TuTh 9:30am - 10:45am	VMH 1418
0201	Sandra Rose	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	VMH 1418
0301	Sandra Rose	Seats (Total: 45)
	Tu 7:00pm - 9:40pm	VMH 1206

BMGT424 Advanced Accounting

Credits: 3 Grading Method: Regular

Prerequisite: BMGT311.

Advanced accounting theory applied to specialized topics and current problems. Emphasis on consolidated statements and partnership accounting.

Restricted to Accounting majors.

0101	Samuel Handwerger	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	VMH 1330

BMGT430 Linear Statistical Models in Business

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or permission of BMGT-Robert H. Smith School of Business.

Model building involving an intensive study of the general linear stochastic model and the applications of this model to business problems. The model is derived in matrix form and this form is used to analyze both the regression and ANOVA formulations of the general linear model.

Restricted to BMGT majors with 84 credit hours completed or Business Analytics minors (BU01).

0101	Radu Lazar	Seats (Total: 40)
	TuTh 9:30am - 10:45am	VMH 1307

BMGT431 Data Analytics

Credits: 3 Grading Method: Regular

Prerequisite: BMGT430.

An introduction to the tools and techniques that are central to the analysis of abundant data that is being collected in many forms including web traffic, social network data, and reviews and comments on websites.

Restricted to Business Analytics minors (BU01) or OM majors (0503R).

0101	Woei-Jyh Lee	Seats (Total: 50)
	MW 5:00pm - 6:15pm	VMH 1336

BMGT434 Introduction to Optimization

Credits: 3 Grading Method: Regular

Prerequisite: MATH220 or MATH140; or students who have taken courses with comparable content may contact the department. Recommended: MATH221; or MATH141. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Introduces concepts and techniques of operations research to model and solve business decision problems, focusing on optimization and commercially available software tools. Models include linear programming, the transportation and assignment problems, network flow models, and non-linear programming. Emphasis is placed on analyzing business scenarios and formulating associated decision models.

Restricted to Business majors, QUEST Program students, and Business Analytic minors.

0101	Rui Zhang	Seats (Total: 35)
	MW 11:00am - 12:15pm	VMH 1411

BMGT435 Business Process Simulation

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Develop and plan simulation studies, build simulation models with special purpose software, analyze and interpret the results. Extensive use of applications and real-world examples. The emphasis is on model formulation and the interpretation of results, rather than mathematical theory.

Restricted to BMGT majors and Business Analytics minors with 60 credit hours completed.

0101	Kazim Ruhi	Seats (Total: 38)
	TuTh 9:30am - 10:45am	VMH 1412

BMGT438A Special Topics in Operations Management; Applied Quantitative Analysis

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in operations management.

Course restricted to QUEST students. Also offered as ENES478A. Credit granted for BMGT438A or ENES478A.

0101	Kylie King	Seats (Total: 20)
	Th 5:00pm - 5:50pm	VMH 1415

BMGT438G Special Topics in Operations Management; Design and Innovation in Silicon Valley

Credits: 3 Grading Method: Regular

Selected advanced topics in operations management.

Prerequisite: BMGT190H or ENES190H. Restricted to QUEST Program students. Also offered as ENES489Q. Credit granted for BMGT438G or ENES489Q. Travel to Silicon Valley during Spring Break required of all class participants.

0101	Kylie King, Jeffrey Herrmann	Seats (Total: 15)
	Th 7:00pm - 8:15pm	VMH 1415
	Contact instructor or department for details.	

BMGT440 Advanced Financial Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

Restricted to BMGT majors with 68 credit hours completed.

0101	Susan White MW 8:00am - 9:15am	Seats (Total: 40) VMH 1336
0201	Susan White MW 9:30am - 10:45am	Seats (Total: 40) VMH 1336
0301	David Kass TuTh 2:00pm - 3:15pm	Seats (Total: 40) VMH 1415
0401	David Kass TuTh 3:30pm - 4:45pm	Seats (Total: 40) VMH 1415

BMGT440F Advanced Financial Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340.

Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

Restricted to students in the Smith School's Emerging CFO's Fellows program.

FP01	Susan White MW 11:00am - 12:15pm	Seats (Total: 35) VMH 1336
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BMGT441 Fixed Income

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Credit only granted for: BMGT448A or BMGT441. Formerly: BMGT448A.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

Restricted to Finance majors with 72 credit hours completed.

0101	Mark Taranto MW 3:30pm - 4:45pm	Seats (Total: 46) VMH 1335
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0201	Mark Taranto	Seats (Total: 46)
	MW 5:00pm - 6:15pm	VMH 1335

BMGT442F Advanced Portfolio Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343. Credit only granted for: BMGT442 or BMGT448C. Formerly: BMGT448C.

An in-depth coverage of statistical methods for choosing stocks is provided. Financial markets data is used in the class. Students are also expected to learn and use Matlab during the class to implement the concepts of the class.

Restricted to Quantitative Finance Fellows (FPQF).

FP01	Russell Wermers	Seats (Total: 35)
	MW 12:30pm - 1:45pm	VMH 1314

BMGT443 Applied Equity Analysis and Portfolio Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343.

Study and application of the concepts, methods, models, and empirical findings to the analysis, valuation and selection of securities, especially common stock.

Restricted to BMGT majors with 84 credit hours completed.

0101	Joseph Perfetti	Seats (Total: 45)
	MW 11:00am - 12:15pm	VMH 3505
0201	Joseph Perfetti	Seats (Total: 45)
	MW 12:30pm - 1:45pm	VMH 3505
0301	Joseph Perfetti	Seats (Total: 45)
	MW 2:00pm - 3:15pm	VMH 3505
0401	Joseph Perfetti	Seats (Total: 45)
	MW 3:30pm - 4:45pm	VMH 3505

BMGT444 Futures and Options Contracts

Credits: 3 Grading Method: Regular

Prerequisite: BMGT343. Credit only granted for: BMGT444 and MATH424.

The institutional features and economic rationale underlying markets in futures and options. Hedging, speculation, structure of futures prices, interest rate futures, efficiency in futures markets and stock and commodity options.

Restricted to Finance majors with 84 credit hours completed.

0101	Dilip Madan	Seats (Total: 60)
	M 7:00pm - 9:40pm	VMH 1330

BMGT445 Banking and Financial Institutions

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Recommended: ECON330 or BMGT341.

Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.

Restricted to Finance majors with 84 credit hours completed.

0101	Albert Ciafre	Seats (Total: 45)
	M 7:00pm - 9:40pm	VMH 1335
0201	David Malmquist	Seats (Total: 45)
	Tu 7:00pm - 9:40pm	VMH 1303
0301	Matthew Canzater	Seats (Total: 45)
	W 7:00pm - 9:40pm	VMH 1335

BMGT445F Banking and Financial Institutions

Credits: 3 Grading Method: Regular

Prerequisite: BMGT340. Recommended: ECON330 or BMGT341.

Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.

Restricted to students in the Financial Services Fellows program.

FP01	Elinda Kiss	Seats (Total: 35)
	MW 2:00pm - 3:15pm	VMH 1314

BMGT446**International Finance**

Credits: 3

Grading Method: Regular

Prerequisite: BMGT340.

Financial management from the perspective of the multinational corporation. Topics covered include the organization and functions of foreign exchange and international capital markets, international capital budgeting, financing foreign trade and designing a global financing strategy. Emphasis of the course is on how to manage exchange and political risks while maximizing benefits from global opportunity sets faced by the firm.

0101	Michael Padhi	Seats (Total: 40)
	MW 12:30pm - 1:45pm	VMH 1411
<i>Restricted to Finance and International Business majors with 72 credit hours completed.</i>		
0201	Michael Padhi	Seats (Total: 40)
	MW 2:00pm - 3:15pm	VMH 2505
<i>Restricted to Finance and International Business majors with 72 credit hours completed.</i>		
0301	Donald Bowen	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	VMH 1336
<i>Restricted to Finance and International Business majors with 72 credit hours completed.</i>		
0401	Tanakorn Makaew	Seats (Total: 40)
	Tu 7:00pm - 9:40pm	VMH 1335
<i>Restricted to Finance and International Business majors with 72 credit hours completed.</i>		
SG91	Michael Padhi	Seats (Total: 50)
	TuTh 11:00am - 12:15pm	BLD2 2062
<i>Restricted to Senior BMGT-Shady Grove students. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		
SG92	Michael Padhi	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	BLD2 2062
<i>Restricted to Senior BMGT-Shady Grove students. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT448J**Special Topics in Finance; Investment Banking**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in finance.

Restricted to Junior Wall Street Fellows.

Contact department for information to register for this course.

BMGT448L Special Topics in Finance; Hedge Fund Management

Credits: 3 Grading Method: Regular

Selected advanced topics in finance.

Prerequisite: BMGT340. Restricted to Finance majors with 72 credit hours completed.

0101	Kenneth Brodkowitz	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	VMH 3505

BMGT449F Investment Fund Management: Lemma Senbet Fund; Investment Fund Management

Credits: 3 Grading Method: Regular

The Lemma Senbet Fund is a year-long, advanced finance course available to undergraduate finance majors in their senior year. Ten to twelve students will be selected in the spring of their junior year to participate on the fund, two as portfolio managers and eight to ten as equity analysts. The course provides students with the opportunity to apply what they have learned in finance classes to actual investment decisions, through researching real companies and managing a portfolio of real money.

Restricted to students in the Smith School's Lemma Senbet Fund Fellows program.

FP01	Sarah Kroncke	Seats (Total: 12)
	TuTh 10:00am - 12:00pm	VMH 2509

BMGT450 Integrated Marketing Communications

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT354 or BMGT450. Formerly: BMGT354.

In-depth study of coordinated marketing activities including advertising, sales promotion, Internet marketing, direct marketing and personal selling. Emphasizes strategic planning to effectively use these promotional tools to communicate with customers and meet marketing goals. Blends theory and current practice to provide managerial orientation.

0101	Katherine Boyle TuTh 11:00am - 12:15pm <i>Restricted to BMGT majors with 60 credit hours completed.</i>	Seats (Total: 32) VMH 1411
SG91	Robert Fiddler TuTh 9:30am - 10:45am <i>Restricted to Senior BMGT-Shady Grove and Junior BMGT-Shady Grove students majoring in International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 45) BLD3 4220
SG92	Robert Fiddler TuTh 11:00am - 12:15pm <i>Restricted to Senior BMGT-Shady Grove students. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 45) BLD3 4220

BMGT450F Integrated Marketing Communications

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT354 or BMGT450. Formerly: BMGT354.

In-depth study of coordinated marketing activities including advertising, sales promotion, Internet marketing, direct marketing and personal selling. Emphasizes strategic planning to effectively use these promotional tools to communicate with customers and meet marketing goals. Blends theory and current practice to provide managerial orientation.

Restricted to students in the Smith School's Sports Management Fellows and Music Management Fellows programs.

FP01	Katherine Boyle TuTh 9:30am - 10:45am	Seats (Total: 30) VMH 1411
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BMGT451 Consumer Analysis

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Recommended: PSYC100; and PSYC221.

Identifying buyer behavior concepts relevant to a specific marketing problem so that appropriate marketing decisions can be made. Conceptual frameworks are drawn from psychology, sociology, economics, and other social sciences to aid in understanding the behavior of ultimate and industrial buyers.

0101	Jared Watson MW 11:00am - 12:15pm <i>Restricted to Marketing majors with 68 credit hours completed.</i>	Seats (Total: 45) VMH 1206
0201	In Kang MW 9:30am - 10:45am <i>Restricted to Marketing majors with 68 credit hours completed.</i>	Seats (Total: 45) VMH 1206
SG91	Marjorie Bonavia TuTh 11:00am - 12:15pm <i>Restricted to Senior BMGT-Shady Grove students majoring in International Business and Junior BMGT-Shady Grove students majoring in Marketing. Other students y request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 50) BLD3 4211

BMGT452

Marketing Research Methods

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350 and BMGT230.

Focuses on aiding marketing decision-making through exploratory, descriptive and casual research. Develops student skills in designing market research studies, including selection of data collection method, development of data collection instrument, sample design, collection and statistical analysis of data and reporting the results.

Restricted to Marketing majors with 72 credit hours completed.

0101	Liye Ma MW 3:30pm - 4:45pm	Seats (Total: 32) VMH 1307
0201	Liye Ma MW 9:30am - 10:45am	Seats (Total: 32) VMH 1307
0301	Tao Chen MW 11:00am - 12:15pm	Seats (Total: 32) VMH 1307

BMGT454

Global Marketing

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.

Restricted to BMGT majors with 72 credit hours completed.

0101	M Fardanesh MW 2:00pm - 3:15pm	Seats (Total: 35) VMH 1333
0201	M Fardanesh MW 12:30pm - 1:45pm	Seats (Total: 35) VMH 1418

BMGT455 Sales Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350.

The roles of the sales executive as a planner, manager of resources and marketing functions and recruiter, trainer, motivator and leader of field sales personnel. Techniques and sequence of problem analysis for selling and sales management decisions and to the practical framework in which these decisions take place. Teaching vehicles feature strong classroom interactions, cases, journal articles, research findings, guest sales managers, debates, and modern company practices.

Restricted to Fall 2012 BMGT-Shady Grove cohort students majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate students are not eligible to enroll at Shady Grove.

SG91	Seoungwoo Lee MW 12:30pm - 1:45pm	Seats (Total: 50) BLD2 2062
<i>Restricted to Senior BMGT-Shady Grove students majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT457 Marketing Policies and Strategies

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: BMGT350.

This capstone course ties together various marketing concepts using the fundamentals of strategic market planning as the framework. Application of these principles is accomplished by analyzing and discussing cases and by playing a marketing strategy computer simulation game. Analysis of current business articles to understand the link between theory and real-world problem solving.

0101	Mary Harms TuTh 11:00am - 12:15pm <i>Restricted to Marketing majors with 100 credit hours completed.</i>	Seats (Total: 45) VMH 1202
0201	Diane Whitney MW 2:00pm - 3:15pm <i>Restricted to Marketing majors with 100 credit hours completed.</i>	Seats (Total: 45) VMH 1336
0301	Diane Whitney MW 12:30pm - 1:45pm <i>Restricted to Marketing majors with 100 credit hours completed.</i>	Seats (Total: 45) VMH 1336
SG91	Juhi Naithani MW 2:00pm - 3:15pm <i>Restricted to Senior BMGT-Shady Grove students majoring in Marketing. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 35) BLD2 2062

BMGT458C Special Topics in Marketing; Managing Services

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in marketing.

Contact department for information to register for this course.

BMGT461 Entrepreneurship

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Restricted to BMGT majors with 72 credit hours completed. Non-majors should register for BMGT461N. BMGT minors should register for BMGT461M.

0101	David Kressler	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	VMH 1202
0201	David Kressler	Seats (Total: 40)
	MW 12:30pm - 1:45pm	SQH 1119

BMGT461M Entrepreneurship

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Restricted to Innovation & Entrepreneurship Minors (BU03).

BL01	Brent Goldfarb	Seats (Total: 180)
	TuTh 2:00pm - 3:15pm	ASY 2203
	Class time/details on ELMs	ONLINE

BMGT461N Entrepreneurship

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460 or HLMN470.

Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.

Open to all non-BMGT majors with 72 credit hours completed. BMGT majors should register for BMGT 461. Not open to Innovation and Entrepreneurship minors (#BU03).

0101	David Kressler	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	VMH 1202

BMGT463 Cross-cultural Challenges in Business

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.

Restricted to International Business, Management, & Entrepreneurship majors (0503I, 0503G, 0503E) with 72 credit hours completed.

0101	Gosia Langa MW 3:30pm - 4:45pm	Seats (Total: 40) VMH 1411
0201	Gosia Langa MW 2:00pm - 3:15pm	Seats (Total: 40) VMH 1411

BMGT466

Global Business Strategy

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.

0101	Elie Ashery Tu 5:00pm - 7:40pm	Seats (Total: 55) TWS 1310
<i>Restricted to International Business, Management, & Entrepreneurship majors (0503I, 0503G, 0503E) with 72 credit hours completed.</i>		
SG91	Elie Ashery MW 11:00am - 12:15pm	Seats (Total: 40) BLD2 3062
<i>Restricted to Senior BMGT-Shady Grove students majoring in International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT468L

Special Topics in Management and Organization; Innovation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in management and organization.

Contact department for information to register for this course.

BMGT468P

Special Topics in Management and Organization; Practicum in Global Business

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

FP01	Patricia Cleveland	Seats (Total: 26)
	Tu 5:00pm - 7:40pm	VMH 1418

Restricted to students in the Smith School's Global Fellows Program.

BMGT468R Special Topics in Management and Organization; Fearless Founders: New Venture Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected advanced topics in management and organization.

Restriction: Permission of BMGT-Robert H. Smith School of Business. Also offered as ENES498R.
Credit granted for ENES498R or BMGT468R.

0101	Elana Fine	Seats (Total: 25)
	M 5:00pm - 7:30pm	VMH 1418

BMGT468T Special Topics in Management and Organization; Creativity for Business Leaders and Entrepreneurs Outdoor Edition

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 45 credit hours completed. Course requires participation in activities outside the scheduled meeting time, including site visits to Under Armour and in the outdoors.

0101	Oliver Schlake	Seats (Total: 35)
	M 12:30pm - 1:45pm	VMH 1303
	Contact instructor or department for details.	

BMGT468U Special Topics in Management and Organization; Fearless Founders: Social Entrepreneurship Laboratory

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 45 credits earned.

0101	Mrim Boutla	Seats (Total: 30)
	F 12:00pm - 2:40pm	VMH 2505

BMGT468W Special Topics in Management and Organization; Social Innovation Practicum

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to Social Innovation Fellows.

FP01	David Kirsch	Seats (Total: 23)
	TuTh 12:30pm - 1:45pm	VMH 1307

BMGT468Z Special Topics in Management and Organization; Create the Future through Systems Thinking and Design

Credits: 3 Grading Method: Regular

Selected advanced topics in management and organization.

Restricted to students with 60 credit hours completed. Not open to students in the QUEST Honors program.

0101	Jose Suarez	Seats (Total: 25)
	MW 2:00pm - 3:15pm	SYM 3320

BMGT470 Carrier Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT370.

The study of the wide range of issues facing managers in transportation This includes decisions on market entry, pricing, competitive responses, service levels, marketing strategies, capital structure, and growth objectives. Specific management decisions and overall strategies pursued by management are examined.

Restricted to Supply Chain Management majors.

0101	Leland Gardner	Seats (Total: 40)
	TuTh 9:30am - 10:45am	VMH 2203

BMGT472 Purchasing and Inbound Logistics

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

Analysis of the resupply activities of logistics management, including purchasing policies, transportation planning, and inventory control. Attention is directed toward total cost minimization and the establishment of a sustainable competitive advantage based on procurement.

Restricted to Supply Chain Management majors.

0101	Philip Evers	Seats (Total: 35)
	MW 9:30am - 10:45am	VMH 1202

BMGT476 Technology Applications in Supply Chain Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT372.

An understanding of the role of technology in managing the supply chain Provides students with hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating that these systems result in supply chain cost reductions and service improvements.

Restricted to Supply Chain Management and Information Systems majors.

0101	Omar Elwakil	Seats (Total: 24)
	MW 2:00pm - 3:15pm	VMH 3522
0201	Omar Elwakil	Seats (Total: 24)
	MW 3:30pm - 4:45pm	VMH 3522
0301	Camil Martinez, Dianne Fox	Seats (Total: 24)
	TuTh 12:30pm - 1:45pm	VMH 3522
0401	Omar Elwakil	Seats (Total: 24)
	MW 11:00am - 12:15pm	VMH 3522

BMGT477 International Supply Chain Management

Credits: 3 Grading Method: Regular

The study of the importance of the supply chain management within a global context. Topics covered include: the structure, service, pricing and competitive relationships among international carriers and transport intermediaries as well as documentation, location decisions, international sourcing/distribution and management of inventory throughout the international supply chain.

0101	Koki Nagata	Seats (Total: 45)
	TuTh 9:30am - 10:45am	VMH 1335
<i>Restricted to Supply Chain Management majors and International Business majors.</i>		
0201	Koki Nagata	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	VMH 1335
<i>Restricted to Supply Chain Management majors and International Business majors.</i>		
SG91	Koki Nagata	Seats (Total: 40)
	MW 12:30pm - 1:45pm	BLD2 3062
<i>Restricted to Senior BMGT-Shady Grove students majoring in International Business. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

BMGT478C Special Topics in Supply Chain Management; Supply Chain Risk Management

Credits: 3 Grading Method: Regular

Selected advanced topics in supply chain management.

Restricted to Supply Chain Management majors.

0101	Leland Gardner	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	VMH 1307

BMGT484 Electronic Marketing

Credits: 3 Grading Method: Regular

Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Examines the process of developing, implementing, and analyzing strategies for successfully marketing a variety of existing and potential products and services through digital means, including the web, social media, and mobile apps. Both the development and analysis of digital media for marketing will be discussed.

Restricted to BMGT majors with 60 credit hours completed.

0101	Mary Harms	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	VMH 3505
0201	Michael Trusov	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	VMH 3505

0301	Michael Trusov TuTh 2:00pm - 3:15pm	Seats (Total: 40) VMH 3505
0401	Michael Trusov TuTh 9:30am - 10:45am	Seats (Total: 40) VMH 3505

BMGT485 Project Management

Credits: 3 Grading Method: Regular

Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

Modern project management techniques that are used by modern practicing professionals will be covered. Particular attention is given to the management of technology based systems and projects in a business enterprise. The topics covered include: defining project scope, alignment of projects with enterprise strategy, managing project cost, time and risks using tools such as CPM/PERT, and measuring project performance.

Restricted to BMGT majors and QUEST program students with 72 credit hours completed.

0101	Hassan Ibrahim MW 3:30pm - 4:45pm	Seats (Total: 35) VMH 1206
0201	Hassan Ibrahim W 7:00pm - 9:40pm	Seats (Total: 35) VMH 1307

BMGT487 Six Sigma Innovation

Credits: 3 Grading Method: Regular

Prerequisite: STAT400, BMGT231, BMGT230, or ENME392.

Enhances the overall understanding of Six Sigma Strategy, Tools and Methods to positively influence the performance of a business process, a product or service. Highlights the application of Define-Measure-Analyze-Improve-Control (DMAIC), Design For Six Sigma (DFSS), and the pursuit of Critical to Quality criteria (CTQ's) in a collaborative perspective, one that recognizes a balance between efficiency, and effectiveness and between statistical analysis and statistical thinking.

Restricted to students with 72 credits.

0101	Ronald Kelley M 5:00pm - 7:40pm	Seats (Total: 35) VMH 1206
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BMGT488A Special Topics in Logistics, Business, and Public Policy; Introduction to Sport Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488R Special Topics in Logistics, Business, and Public Policy; International Business Law

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT488Y Special Topics in Logistics, Business, and Public Policy; Corporate and Social Responsibility and Sustainable Business Practices

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected advanced topics in logistics, business and public policy.

Contact department for information to register for this course.

BMGT490H Quest Consulting and Innovation Practicum

Credits: 4 Grading Method: Regular General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: ENES490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Restricted to QUEST program students. Also offered as ENES490H. Credit granted for ENES490H or BMGT490H.

0101	Kylie King, Jeffrey Herrmann	Seats (Total: 45)
	W 5:00pm - 7:40pm	VMH 1415
	Contact instructor or department for details.	

BMGT491 Defining Consulting and Innovation Projects

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: ENES491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

0101	Kylie King	Seats (Total: 13)
	Tu 10:00am - 10:50am	VMH 1407
	F 10:00am - 11:40am	VMH 1407

BMGT494H Honors Study

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BMGT493. Restriction: Permission of BMGT-Robert H. Smith School of Business; and must be in the Smith School Honors Fellows program.

Second semester of the senior year. The student shall continue and complete the research initiated in BMGT 493, additional reports may be required at the discretion of the faculty advisor and Assistant Dean of Undergraduate Studies.

Restricted to BMGT Honors students.

0101	Charles Olson	Seats (Total: 25)
	Contact instructor or department for details.	

BMGT495 Strategic Management

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

0101	Evan Starr	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	VMH 1411
	<i>Restricted to majors with 100 credit hours completed.</i>	

0201	Protiti Dastidar TuTh 9:30am - 10:45am <i>Restricted to BMGT majors with 100 credit hours completed. This section meets in a blended format. A portion of the face-to-face meeting time will be replaced by asynchronous online activities, including video lectures, quizzes, and graded assignments.</i>	Seats (Total: 35) VMH 1314
0301	Nina Sirola Tu 7:00pm - 9:40pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
0401	Evan Starr TuTh 3:30pm - 4:45pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1411
0501	Protiti Dastidar TuTh 11:00am - 12:15pm <i>Restricted to BMGT majors with 100 credit hours completed. This section meets in a blended format. A portion of the face-to-face meeting time will be replaced by asynchronous online activities, including video lectures, quizzes, and graded assignments.</i>	Seats (Total: 35) VMH 1314
0601	Waverly Ding TuTh 12:30pm - 1:45pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
0701	Waverly Ding TuTh 2:00pm - 3:15pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
0801	Waverly Ding TuTh 3:30pm - 4:45pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
0901	Nina Sirola M 7:00pm - 9:40pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314

1001	David Kressler MW 9:30am - 10:45am <i>Restricted to BMGT majors with 100 credit hours completed. This section meets in a blended format. A portion of the face-to-face meeting time will be replaced by asynchronous online activities, including video lectures, quizzes, and graded assignments.</i>	Seats (Total: 35) VMH 1314
1101	James Spina MW 11:00am - 12:15pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
1201	Nina Sirola MW 3:30pm - 4:45pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1314
1301	Clarence Wesley MW 12:30pm - 1:45pm <i>Restricted to BMGT majors with 100 credit hours completed.</i>	Seats (Total: 35) VMH 1330
SG91	Paulo Prochno TuTh 9:30am - 10:45am <i>Restricted to Senior BMGT-Shady Grove cohort. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 35) BLD2 3022
SG92	Oliver Schlake TuTh 9:30am - 10:45am <i>Restricted to Senior BMGT-Shady Grove cohort. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 35) BLD2 2052
SG93	Oliver Schlake TuTh 11:00am - 12:15pm <i>Restricted to Senior BMGT-Shady Grove cohort. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 35) BLD2 2052
SG94	Paulo Prochno TuTh 11:00am - 12:15pm <i>Restricted to Senior BMGT-Shady Grove cohort. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 35) BLD2 3022

SG95	Oliver Schlake	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	BLD2 2052
<i>Restricted to Senior BMGT-Shady Grove cohort. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>		

Restricted to BMGT Honors students with 100 credit hours completed.

BMGT495H Strategic Management

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.

A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.

0101	Paulo Prochno	Seats (Total: 36)
	MW 11:00am - 12:15pm	VMH 1202

BMGT496 Business Ethics and Society

Credits: 3

Grading Method: Regular

Prerequisite: 1 course in BMGT; or permission of BMGT-Robert H. Smith School of Business.

A study of the standards of business conduct, morals and values as well as the role of business in society with consideration of the sometimes conflicting interests of and claims on the firm and its objectives. Emphasizes a strategic approach by business to the management of its external environment.

0101	Brian Nelson	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	VMH 1411
<i>Restricted to BMGT majors with 53 credit hours completed.</i>		

BMGT497 Strategic Management for Non Business Majors

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be admitted to the Minor in General Business or the Minor in Innovation and Entrepreneurship; and must not be a major in the R.H. Smith School of Business. Additional information: Course does not apply toward a Smith School degree.

Focuses on how a firm can both formulate and implement effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits

Restricted to General Business Minors (BU02).

BL01	Protiti Dastidar	Seats (Total: 90)
	Meets January 25, 2016 - March 12, 2016	
	Tu 3:30pm - 4:45pm	ASY 2203
	Class time/details on ELMs	ONLINE
BL02	Protiti Dastidar	Seats (Total: 90)
	Meets January 25, 2016 - March 12, 2016	
	Th 3:30pm - 4:45pm	ASY 2203
	Class time/details on ELMs	ONLINE

BMGT498C Special Topics in Business and Management; The Business of French and Dutch Design and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Contact department for information to register for this course.

BMGT498L Special Topics in Business and Management; Innovating the Higher Education Business Model

(Perm req)

Credits: 3 Grading Method: Regular

Special topics in business and management designed to meet the changing needs and interests of students and faculty.

Inново Scholars is a new program offering an elite group of students the opportunity to participate in the innovation of teaching and learning at Smith. In addition to completing normal teaching assistant activities, the Scholars will be responsible for designing and implementing improvements to an existing Smith course or program.

0101	Sandra Loughlin	Seats (Total: 20)
	Th 5:00pm - 6:50pm	VMH 3332
	Contact instructor or department for details.	
SG91	Sandra Loughlin	Seats (Total: 1)
	Th 5:00pm - 6:50pm	VMH 1336
	Contact instructor or department for details.	

BMGT499C Advanced Business Topics; Executive Seminar in Logistics

(Perm req)

Credits: 1 Grading Method: Regular

Course will delve deeply into a specific business topic. Based on experience and knowledge from undergraduate core business classes, students will examine a particular subject from various angles.

Restricted to Supply Chain Management Fellows.

FP01	Philip Evers	Seats (Total: 30)
	Meets January 25, 2016 - March 12, 2016	
	F 10:00am - 12:40pm	VMH 2511

BMGT808D Special Topics in Information Systems; Information Systems Economics ICredits: 2 Grading Method: Regular,
Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Sivakumar Viswanathan	Seats (Total: 12)
	Meets January 25, 2016 - March 12, 2016	
	Tu 10:00am - 1:00pm	VMH 3332

BMGT808E Special Topics in Information Systems; Information Systems Economics IICredits: 2 Grading Method: Regular,
Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Il-Horn Hann	Seats (Total: 12)
	Meets March 21, 2016 - May 6, 2016	
	Contact instructor or department for details.	

BMGT808R Special Topics in Information Systems; Research Seminar in Decision, Operations and Information TechnologiesCredits: 1 Grading Method: Regular,
Audit

Special topics specific to the Information Systems doctoral field of study.

0101	Il-Horn Hann	Seats (Total: 15)
	F 2:00pm - 3:30pm	VMH 1335

BMGT808W Special Topics in Information Systems; Research in Strategy and Information Systems II

Credits: 2 Grading Method: Regular, Audit

Special topics specific to the Information Systems doctoral field of study.

0101	II-Horn Hann, Ritu Agarwal	Seats (Total: 12)
Meets January 25, 2016 - March 12, 2016		
	W 2:00pm - 4:45pm	VMH 4534

BMGT818B Special Topics in Accounting and Information Assurance; Topics in Financial Accounting

Credits: 3 Grading Method: Regular,
Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Rebecca Hann	Seats (Total: 12)
	M 2:30pm - 5:30pm	VMH 4335

BMGT818R Special Topics in Accounting and Information Assurance; Workshop in Accounting Research

Credits: 1 Grading Method: Regular,
Audit

Special topics specific to the Accounting and Information Assurance doctoral field of study.

0101	Emanuel Zur	Seats (Total: 12)
	Contact instructor or department for details.	

BMGT828 Independent Study in Business and Management

Credits: 1-9 Grading Method: Regular
Contact department for information to register for this course.

BMGT831 Operations Research: Extension of Linear Programming and Network Analysis

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: BMGT830; or students who have taken courses with comparable content may contact the department; or permission of BMGT-Robert H. Smith School of Business.

Concepts and applications of network and graph theory in linear and combinatorial models with emphasis on computational algorithms.

0101	Bruce Golden	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	VMH 2509

BMGT838A Special Topics in Operations Management/Management Science; Economics of Operations Management: Theory and Empirical Analysis

Credits: 3 Grading Method: Regular,
Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Tunay Tunca	Seats (Total: 20)
	F 3:30pm - 6:10pm	VMH 2509

BMGT838O Special Topics in Operations Management/Management Science; Seminar in Operations Management

Credits: 3 Grading Method: Regular,
Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Wedad Elmaghraby	Seats (Total: 8)
	Tu 12:00pm - 3:00pm	VMH 4335

BMGT838R Special Topics in Operations Management/Management Science; Research Seminar in Decision, Operations and Information Technologies

Credits: 1 Grading Method: Regular,
Audit

Special topics specific to the Operations Management/Management Science doctoral field of study.

0101	Wedad Elmaghraby	Seats (Total: 15)
	F 2:00pm - 3:30pm	VMH 1335

BMGT841 Seminar in Corporate Finance

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of BMGT-Robert H. Smith School of Business.

Seminar in selected classic and current theoretical and empirical research in corporate finance.

0101	Richmond Mathews	Seats (Total: 12)
	W 5:10pm - 6:25pm	VMH 2509
	F 3:45pm - 5:00pm	VMH 1314

BMGT848B Special Topics in Finance; Financial Research Methods

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Finance doctoral field of study.

0101	Michael Faulkender, Richmond Mathews	Seats (Total: 12)
	M 5:30pm - 7:30pm	VMH 2509
	<i>Meets 2/29, 3/21, 4/4, 4/18, 4/25, 5/2.</i>	

BMGT848F Special Topics in Finance; Workshop in Finance Research

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Finance doctoral field of study.

0101	Liu Yang	Seats (Total: 12)
	F 9:00am - 12:15pm	VMH 2511

BMGT858E Special Topics in Marketing; Experimental Design

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Marketing doctoral field of study.

0101	Rosellina Ferraro	Seats (Total: 12)
	Meets March 21, 2016 - May 10, 2016	
	Tu 1:00pm - 4:35pm	VMH 3332

BMGT858G Special Topics in Marketing; Analytical Modeling

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Marketing doctoral field of study.

0101	David Godes	Seats (Total: 12)
	Meets March 21, 2016 - May 10, 2016	
	Contact instructor or department for details.	

BMGT858L Special Topics in Marketing; Marketing Strategy

Credits: 3 Grading Method: Regular,
 Audit

Special topics specific to the Marketing doctoral field of study.

0101	Roland Rust	Seats (Total: 12)
	M 1:00pm - 3:30pm	VMH 3332

BMGT858R Special Topics in Marketing; Marketing Research Seminar

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Marketing doctoral field of study.

0101	Bo Zhou	Seats (Total: 16)
	F 10:00am - 12:30pm	VMH 1335

BMGT868C Special Topics in Organizational Behavior/Human Resource Management; Career and Professionalization Workshop in Management and Organization

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Rajshree Tronetti, Marko Pitesa	Seats (Total: 30)
	F 12:30pm - 2:00pm	VMH 2511

BMGT868E Special Topics in Organizational Behavior/Human Resource Management; Emotions in Organizations

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Myeong-Gu Seo	Seats (Total: 12)
	Meets January 25, 2016 - March 11, 2016	
	M 9:00am - 12:35pm	VMH 4534

BMGT868F Special Topics in Organizational Behavior/Human Resource Management; Factor Analysis and Structural Equation Modeling Workshop

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Gilad Chen	Seats (Total: 12)
	Meets January 26, 2016 - February 9, 2016	
	Tu 8:30am - 12:40pm	VMH 4534

BMGT868I Special Topics in Organizational Behavior/Human Resource Management; Employment Relationships, Training, and Performance Management

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Mary Taylor	Seats (Total: 12)
	Meets March 21, 2016 - May 10, 2016	
	W 1:00pm - 4:35pm	VMH 4534

BMGT868J Special Topics in Organizational Behavior/Human Resource Management; Mediated and Moderated Regression Workshop

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Subrahmaniam Tangirala	Seats (Total: 12)
	Meets March 22, 2016 - April 5, 2016	
	Tu 10:00am - 2:10pm	VMH 4534

BMGT868P**Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Management Presentations**

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.

0101	Hui Liao	Seats (Total: 10)
	W 11:00am - 12:30pm	VMH 2509

BMGT878C**Special Topics in Strategic Management and Entrepreneurship; Cross Disciplinary Workshop in Strategy and Entrepreneurship**

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Marko Pitesa, Waverly Ding, Cristian Dezso	Seats (Total: 13)
	Th 11:00am - 12:30pm	VMH 2505

BMGT878G**Special Topics in Strategic Management and Entrepreneurship; Endogeneity and Selection in Entrepreneurship and Strategic Management Research**

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Brent Goldfarb	Seats (Total: 12)
	Meets January 25, 2016 - March 11, 2016	
	Th 4:00pm - 5:40pm	VMH 4534

BMGT878N**Special Topics in Strategic Management and Entrepreneurship; Theory of the Firm**

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Anil Gupta	Seats (Total: 12)
	Meets January 25, 2016 - March 11, 2016	
	M 1:00pm - 4:40pm	VMH 4534

BMGT878O Special Topics in Strategic Management and Entrepreneurship; Organizational Economics

Credits: 2 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Rachelle Sampson	Seats (Total: 12)
	Meets March 21, 2016 - May 10, 2016	
	Th 2:00pm - 5:35pm	VMH 4534

BMGT878P Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship PhD Presentations

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Rajshree Tronetti	Seats (Total: 30)
	Th 8:30am - 10:30am	VMH 3330H

BMGT878Q Special Topics in Strategic Management and Entrepreneurship; Qualitative Methods

Credits: 1 Grading Method: Regular,
 Audit

Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.

0101	Christine Beckman	Seats (Total: 12)
	Meets January 20, 2016 - February 5, 2016	
	F 1:00pm - 4:20pm	VMH 4534
	<i>Meets from 1-4:20pm on 1/20 and 2/5 and from 9am-4:20pm on 1/22.</i>	

BMGT888C Special Topics in Supply Chain Management; Inventory Research

Credits: 3 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Philip Evers	Seats (Total: 12)
	W 1:00pm - 3:45pm	VMH 3332

BMGT888W Special Topics in Supply Chain Management; Workshop in Supply Chain Management

Credits: 1 Grading Method: Regular

Special topics specific to the Supply Chain Management doctoral field of study.

0101	Curtis Grimm	Seats (Total: 10)
	F 1:00pm - 2:30pm	VMH 3332

BMGT898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

BMGT899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

BSCI Biological Sciences Program Spring 2016

BSCI courses are offered by the Biological Science Program and individual College of Computer, Mathematical and Natural Sciences departments, as indicated. The sponsoring department for each course is provided in the course listing. Consult the sponsoring department if you have questions about an individual course (sponsoring departments BIOL - Department of Biology, 2227 Biol-Psyc Building; BSCI - Biological Sciences Program, 1322 Symons Hall; CBMG - Department of Cell Biology and Molecular Genetics, 1219 H.J. Patterson Building; ENTM - Entomology, 4112 PLS Building). Registration in course sections which begin with "SES" is restricted to students admitted into the Science in the Evening Program, administered through the Office of Extended Studies. For complete information, visit: <http://oes.umd.edu/index.php?slab=sie>, e-mail oes@umd.edu , or call 301-405-7762. The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to consult the instructor prior to course enrollment to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required, and what alternatives, if any, are available. The College of Computer, Mathematical, and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.*

BSCI103 The World of Biology

Credits: 4 Grading Method: Regular CORE: LL General Education: DSNL

Additional information: Not acceptable for degree requirements in Biological Sciences, Chemistry, or Biochemistry.

An introduction to modern biology for the non-science major. Major themes include molecular biology, cell biology, evolution and organismal biology. Relevance of study of biology to modern human life will be emphasized.

(Sponsoring Dept.: BSCI). Students must pay a \$40.00 lab materials fee.

1100	Tammatha O'Brien, Michael Raupp TuTh 12:30pm - 1:45pm M 8:00am - 10:50am	Seats (Total: 23) LEF 2205 HJP 3239	Lab
1101	Michael Raupp, Tammatha O'Brien TuTh 12:30pm - 1:45pm M 11:00am - 1:50pm	Seats (Total: 23) LEF 2205 HJP 3239	Lab
1103	Michael Raupp, Tammatha O'Brien TuTh 12:30pm - 1:45pm M 2:00pm - 4:50pm	Seats (Total: 23) LEF 2205 HJP 3239	Lab
1105	Michael Raupp, Tammatha O'Brien TuTh 12:30pm - 1:45pm M 5:00pm - 7:50pm	Seats (Total: 23) LEF 2205 HJP 3239	Lab
1107	Michael Raupp, Tammatha O'Brien TuTh 12:30pm - 1:45pm Tu 8:00am - 10:50am	Seats (Total: 23) LEF 2205 HJP 3239	Lab
1108	Tammatha O'Brien, Michael Raupp TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 23) LEF 2205 HJP 3239	Lab

BSCI103M

(Perm req)

The World of Biology

Credits: 4

Grading Method: Regular

CORE: LL

General Education: DSNL

Additional information: Not acceptable for degree requirements in Biological Sciences, Chemistry, or Biochemistry.

An introduction to modern biology for the non-science major. Major themes include molecular biology, cell biology, evolution and organismal biology. Relevance of study of biology to modern human life will be emphasized.

(Sponsoring Dept.: BSCI). Must be taken within 12 months of the semester in which BSCI 103 is taken. A student is eligible to take this course only if the lab scores received in BSCI 103 the last time it was taken totalled at least 80 percent of the maximum possible total. These scores will count for part of the grade in BSCI 103M.

0101	Michael Raupp TuTh 12:30pm - 1:45pm	Seats (Total: 5) LEF 2205
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BSCI105**Principles of Biology I**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

5115	Patricia Shields MWF 1:00pm - 1:50pm M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab
5117	Patricia Shields MWF 1:00pm - 1:50pm M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1229 Lab
5125	Patricia Shields MWF 1:00pm - 1:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab
5131	Patricia Shields MWF 1:00pm - 1:50pm Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab
5133	Patricia Shields MWF 1:00pm - 1:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab
5151	Patricia Shields MWF 1:00pm - 1:50pm W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1229 Lab
5153	Patricia Shields MWF 1:00pm - 1:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab
5154	Patricia Shields MWF 1:00pm - 1:50pm Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 1235 Lab

5155	Patricia Shields MWF 1:00pm - 1:50pm Th 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 HJP 1229	Lab
5159	Patricia Shields MWF 1:00pm - 1:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 HJP 1229	Lab
5310	Michael Keller MWF 2:00pm - 2:50pm M 11:00am - 1:50pm	Seats (Total: 24) HJP 0226 HJP 1226	Lab
5311	Michael Keller MWF 2:00pm - 2:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) HJP 0226 HJP 1236	Lab
5313	Michael Keller MWF 2:00pm - 2:50pm M 11:00am - 1:50pm	Seats (Total: 24) HJP 0226 HJP 1229	Lab
5361	Michael Keller MWF 2:00pm - 2:50pm Th 6:00pm - 8:50pm	Seats (Total: 24) HJP 0226 HJP 1235	Lab
5364	Michael Keller MWF 2:00pm - 2:50pm Th 11:00am - 1:50pm	Seats (Total: 24) HJP 0226 HJP 1226	Lab
5370	Michael Keller MWF 2:00pm - 2:50pm Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 0226 HJP 1226	Lab
5372	Michael Keller MWF 2:00pm - 2:50pm Th 2:00pm - 4:50pm	Seats (Total: 24) HJP 0226 HJP 1236	Lab
5426	Norma Allewell MWF 10:00am - 10:50am Tu 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1236	Lab

5427	Norma Allewell MWF 10:00am - 10:50am Tu 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1229	Lab
5432	Norma Allewell MWF 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1236	Lab
5433	Norma Allewell MWF 10:00am - 10:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1229	Lab
5444	Norma Allewell MWF 10:00am - 10:50am Th 6:00pm - 9:00pm	Seats (Total: 24) SKN 0200 HJP 1236	Lab
5445	Norma Allewell MWF 10:00am - 10:50am W 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1235	Lab
5447	Norma Allewell MWF 10:00am - 10:50am W 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1226	Lab
5463	Norma Allewell MWF 10:00am - 10:50am W 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1235	Lab
5473	Norma Allewell MWF 10:00am - 10:50am Th 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1229	Lab
5475	Norma Allewell MWF 10:00am - 10:50am M 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1236	Lab
5625	Michael Keller MWF 9:00am - 9:50am Tu 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1226	Lab

5634	Michael Keller MWF 9:00am - 9:50am M 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1226 Lab
5636	Michael Keller MWF 9:00am - 9:50am M 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1235 Lab
5650	Michael Keller MWF 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1226 Lab
5653	Michael Keller MWF 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 24) SKN 0200 HJP 1236 Lab
5666	Michael Keller MWF 9:00am - 9:50am Th 11:00am - 1:50pm	Seats (Total: 24) SKN 0200 HJP 1236 Lab
SES1	James Sniezek Tu 6:00pm - 8:50pm Th 6:00pm - 9:00pm <i>This section is restricted to students who enroll through the Science i the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 23) PLS 1130 HJP 1226 Lab

BSCI105C

Principles of Biology I

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

For BSCI, BCHM, and CHEM majors only. (Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

5212	Anne Simon	Seats (Total: 23)
	MWF 9:00am - 9:50am	HJP 0226
	M 11:00am - 1:50pm	HJP 1236 Lab
5237	Anne Simon	Seats (Total: 23)
	MWF 9:00am - 9:50am	HJP 0226
	M 2:00pm - 4:50pm	HJP 2226 Lab

BSCI105M

Principles of Biology I

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI). Must be taken within twelve months of the semester in which BSCI 105 is taken. A student is eligible to take this course only if the lab scores received in BSCI 105 the last time it was taken, totalled at least 80 percent of the maximum possible total. These scores will count for part of the grade in BSCI 105M.

5191	Patricia Shields	Seats (Total: 5)
	MWF 1:00pm - 1:50pm	BRB 1101
5393	Michael Keller	Seats (Total: 5)
	MWF 2:00pm - 2:50pm	HJP 0226
5494	Norma Allewell	Seats (Total: 5)
	MWF 10:00am - 10:50am	SKN 0200
5696	Michael Keller	Seats (Total: 5)
	MWF 9:00am - 9:50am	SKN 0200

BSCI105S

Principles of Biology I

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Recommended: For Science majors.

Basic principles of biology with special emphasis on cellular and molecular biology.

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

5230	Anne Simon	Seats (Total: 23)		
	MWF 9:00am - 9:50am	HJP 0226		
	Tu 2:00pm - 4:50pm	HJP 1226	Lab	

BSCI106

Principles of Biology II

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

(Sponsoring Dept.: BSCI). Students must pay a \$40.00 lab materials fee.

6221	Marjorie Reaka	Seats (Total: 23)		
	MWF 1:00pm - 1:50pm	HJP 0226		
	Tu 9:00am - 11:50am	HJP 3211	Lab	
6224	Marjorie Reaka	Seats (Total: 23)		
	MWF 1:00pm - 1:50pm	HJP 0226		
	M 3:00pm - 5:50pm	HJP 3211	Lab	
6245	Marjorie Reaka	Seats (Total: 23)		
	MWF 1:00pm - 1:50pm	HJP 0226		
	Tu 5:00pm - 7:50pm	HJP 3217	Lab	
6284	Marjorie Reaka	Seats (Total: 23)		
	MWF 1:00pm - 1:50pm	HJP 0226		
	Th 5:00pm - 7:50pm	HJP 3211	Lab	
6355	Marcia Shofner	Seats (Total: 23)		
	TuTh 8:00am - 9:15am	TWS 1310		
	W 10:00am - 12:50pm	HJP 3217	Lab	
6361	Marcia Shofner	Seats (Total: 23)		
	TuTh 8:00am - 9:15am	TWS 1310		
	W 2:00pm - 4:50pm	HJP 3211	Lab	

6374	Marcia Shofner TuTh 8:00am - 9:15am Th 11:00am - 1:50pm	Seats (Total: 23) TWS 1310 HJP 3211	Lab
6415	Marcia Shofner TuTh 12:30pm - 1:45pm M 10:00am - 12:50pm	Seats (Total: 23) BRB 1101 HJP 3217	Lab
6441	Marcia Shofner TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3211	Lab
6442	Marcia Shofner TuTh 12:30pm - 1:45pm Tu 2:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3217	Lab
6444	Marcia Shofner TuTh 12:30pm - 1:45pm Tu 5:00pm - 7:50pm	Seats (Total: 23) BRB 1101 HJP 3211	Lab
6454	Marcia Shofner TuTh 12:30pm - 1:45pm W 11:00am - 1:50pm	Seats (Total: 23) BRB 1101 HJP 3211	Lab
6464	Marcia Shofner TuTh 12:30pm - 1:45pm W 5:00pm - 7:50pm	Seats (Total: 23) BRB 1101 HJP 3211	Lab
6481	Marcia Shofner TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3211	Lab
6482	Marcia Shofner TuTh 12:30pm - 1:45pm Th 2:00pm - 4:50pm	Seats (Total: 23) BRB 1101 HJP 3217	Lab

SES1	Marcia Shofner	Seats (Total: 20)	
	Tu 6:00pm - 8:50pm	PLS 1119	
	Th 6:00pm - 8:50pm	HJP 3217	Lab
<p><i>This section is restricted to students who enroll through the Science i the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>			

BSCI106M

Principles of Biology II

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Restriction: For science majors.

Basic principles of biology with special emphasis on organismal, ecological and evolutionary biology.

(Sponsoring Dept.: BSCI). Must be taken within twelve months of the semester in which BSCI 106 is taken. A student is eligible to take this course only if the lab scores received in BSCI 106 the last time it was taken, totalled at least 80 percent of the maximum possible total. These scores will count for part of the grade in BSCI 106M.

Contact department for information to register for this course.

BSCI120

Insects

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

A survey of the major groups of insects, their natural history, and their relationships with humans and their environment. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

(Sponsoring Dept.: ENTM)

0101	Dennis vanEngelsdorp	Seats (Total: 24)	
	TuTh 2:00pm - 2:50pm	JMP 3201	
	Th 12:00pm - 12:50pm	PLS 1161	Discussion
0102	Dennis vanEngelsdorp	Seats (Total: 24)	
	TuTh 2:00pm - 2:50pm	JMP 3201	
	Th 11:00am - 11:50am	PLS 1161	Discussion

BSCI124

Plant Biology for Non-Science Students

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSNL (if taken with BSCI125)
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Restriction: For non-science majors only; and must not have completed BSCI105; and must not have completed BSCI170 or BSCI171. Additional information: CORE Life Sciences Lab (LL) Course only when taken concurrently with BSCI 125.

A basic course in plant biology specifically designed for the non-science student. Emphasis is placed on an evolutionary and ecological approach to studying fundamental concepts and processes of plants, their place in the biosphere, the importance of plants to man, and the manner in which humans impact on plants and their environment. This course will not count toward graduation requirements for any student in Biological Sciences, Chemistry, Biochemistry or the College of Agriculture and Natural Resources.

(Sponsoring Dept.: CBMG). CORE Life Sciences Lab (LL) Course only when taken concurrently with BSCI125.

1001	Edgar Moctezuma	Seats (Total: 220)
	TuTh 2:00pm - 3:15pm	HJP 0226

BSCI125

Plant Biology Laboratory

Credits: 1	Grading Method: Regular, Pass-Fail, Audit
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Corequisite: BSCI124. Restriction: For non-science majors only; and must not have completed BSCI105; and must not have completed BSCI170 or BSCI171. Credit only granted for: BSCI105, BSCI170, or BSCI125. Additional information: CORE Life Sciences Lab (LL) Course only when taken concurrently with BSCI 125.

An introduction to the biology of plants with emphasis on the processes by which plants function, the diversity of plants, and the importance of plants to humans. This course will not count toward graduation requirements for any student in Biological Sciences, Chemistry, Biochemistry or the College of Agriculture and Natural Resources. CORE Lab Science.

(Sponsoring Dept.: CBMG). CORE Life Sciences Lab (LL) Course only when taken concurrently with BSCI 124. Students must pay a \$40.00 lab materials fee.

1104	Edgar Moctezuma	Seats (Total: 24)	
	M 12:00pm - 2:00pm	HJP 3237	Lab
1106	Edgar Moctezuma	Seats (Total: 24)	
	M 3:00pm - 5:00pm	HJP 3237	Lab
1107	Edgar Moctezuma	Seats (Total: 24)	
	Tu 11:00am - 1:00pm	HJP 3237	Lab

1110	Edgar Moctezuma Tu 3:30pm - 5:30pm	Seats (Total: 24) HJP 3237	Lab
1114	Edgar Moctezuma W 12:00pm - 2:00pm	Seats (Total: 24) HJP 3237	Lab
1120	Edgar Moctezuma Th 3:30pm - 5:30pm	Seats (Total: 24) HJP 3237	Lab

BSCI201

Human Anatomy and Physiology I

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

Prerequisite: BSCI170 and BSCI171; or BSCI105; or students who have taken courses with comparable content may contact the department.

Anatomy and physiology of the skeletal, muscular, neural, endocrine, and sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

(Sponsoring Dept.: BIOL). Students must pay a \$40.00 lab materials fee.

0101	Meredith Bohannon MWF 12:00pm - 12:50pm M 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0102	Meredith Bohannon MWF 12:00pm - 12:50pm M 1:00pm - 3:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0103	Meredith Bohannon MWF 12:00pm - 12:50pm M 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0104	Meredith Bohannon MWF 12:00pm - 12:50pm M 7:00pm - 9:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0105	Meredith Bohannon MWF 12:00pm - 12:50pm Tu 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0275	Lab

0106	Meredith Bohannon MWF 12:00pm - 12:50pm Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0107	Meredith Bohannon MWF 12:00pm - 12:50pm Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0108	Meredith Bohannon MWF 12:00pm - 12:50pm W 9:00am - 11:50am	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0109	Meredith Bohannon MWF 12:00pm - 12:50pm W 1:00pm - 3:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0110	Meredith Bohannon MWF 12:00pm - 12:50pm W 4:00pm - 6:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0111	Meredith Bohannon MWF 12:00pm - 12:50pm W 7:00pm - 9:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0112	Meredith Bohannon MWF 12:00pm - 12:50pm Th 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0113	Meredith Bohannon MWF 12:00pm - 12:50pm Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0114	Meredith Bohannon MWF 12:00pm - 12:50pm Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab
0115	Meredith Bohannon MWF 12:00pm - 12:50pm Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0275	Lab

0116	Meredith Bohannon	Seats (Total: 24)		
	MWF 12:00pm - 12:50pm	BRB 1101		
	F 8:00am - 10:50am	BPS 0275	Lab	
SES1	Justicia Opoku-Edusei	Seats (Total: 24)		
	Tu 6:00pm - 8:50pm	BPS 1250		
	Th 6:00pm - 8:50pm	BPS 0275	Lab	
<p><i>This section is restricted to students who enroll through the Science i the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>				

BSCI202

Human Anatomy and Physiology II

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI201; or permission of CMNS-Biology department.

Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.

(Sponsoring Dept.: BIOL). Students must pay a \$40.00 lab materials fee.

0101	Tammatha O'Brien	Seats (Total: 24)		
	TuTh 8:00am - 9:15am	BRB 1101		
	M 8:00am - 10:50am	BPS 0201	Lab	
0102	Tammatha O'Brien	Seats (Total: 24)		
	TuTh 8:00am - 9:15am	BRB 1101		
	M 11:00am - 1:50pm	BPS 0201	Lab	
0103	Tammatha O'Brien	Seats (Total: 24)		
	TuTh 8:00am - 9:15am	BRB 1101		
	M 2:00pm - 4:50pm	BPS 0201	Lab	
0104	Tammatha O'Brien	Seats (Total: 24)		
	TuTh 8:00am - 9:15am	BRB 1101		
	M 5:00pm - 7:50pm	BPS 0201	Lab	

0105	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 9:30am - 12:20pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0106	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 12:30pm - 3:20pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0107	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 3:30pm - 6:20pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0108	Tammatha O'Brien TuTh 8:00am - 9:15am Tu 6:30pm - 9:20pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0109	Tammatha O'Brien TuTh 8:00am - 9:15am W 8:00am - 10:50am	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0110	Tammatha O'Brien TuTh 8:00am - 9:15am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0111	Tammatha O'Brien TuTh 8:00am - 9:15am W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0112	Tammatha O'Brien TuTh 8:00am - 9:15am W 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0113	Tammatha O'Brien TuTh 8:00am - 9:15am Th 9:30am - 12:20pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab
0114	Tammatha O'Brien TuTh 8:00am - 9:15am Th 5:00pm - 7:50pm	Seats (Total: 24) BRB 1101 BPS 0201	Lab

0117	Tammatha O'Brien	Seats (Total: 24)	
	TuTh 8:00am - 9:15am	BRB 1101	
	F 11:00am - 1:50pm	BPS 0201	Lab

BSCI207 Principles of Biology III - Organismal Biology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And must have completed or be concurrently enrolled in CHEM131.

The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.

(Sponsoring Dept.: BSCI).

0101	Bretton Kent	Seats (Total: 80)	
	MWF 9:00am - 9:50am	PLS 1140	
0201	Leo Shapiro	Seats (Total: 80)	
	MWF 11:00am - 11:50am	BRB 1101	
0301	Leo Shapiro	Seats (Total: 80)	
	MWF 2:00pm - 2:50pm	BPS 1243	

BSCI222 Principles of Genetics

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

(Sponsoring Dept.: BSCI).

7106	David Straney	Seats (Total: 24)	
	MWF 10:00am - 10:50am	BRB 1101	
	M 11:00am - 12:50pm	HJP 3233	Discussion

7108	David Straney MWF 10:00am - 10:50am M 1:00pm - 2:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7110	David Straney MWF 10:00am - 10:50am M 3:00pm - 4:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7112	David Straney MWF 10:00am - 10:50am M 5:00pm - 6:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7114	David Straney MWF 10:00am - 10:50am Tu 8:00am - 9:50am	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7116	David Straney MWF 10:00am - 10:50am Tu 10:00am - 11:50am	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7118	David Straney MWF 10:00am - 10:50am Tu 12:00pm - 1:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7120	David Straney MWF 10:00am - 10:50am Th 4:00pm - 5:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7125	David Straney MWF 10:00am - 10:50am W 6:00pm - 7:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7126	David Straney MWF 10:00am - 10:50am Th 12:00pm - 1:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion
7130	David Straney MWF 10:00am - 10:50am Th 2:00pm - 3:50pm	Seats (Total: 24) BRB 1101 HJP 3233	Discussion

7210	David O'Brochta TuTh 12:30pm - 1:45pm Tu 4:00pm - 5:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7211	David O'Brochta TuTh 12:30pm - 1:45pm W 8:00am - 9:50am	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7212	David O'Brochta TuTh 12:30pm - 1:45pm W 10:00am - 11:50am	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7214	David O'Brochta TuTh 12:30pm - 1:45pm W 12:00pm - 1:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7216	David O'Brochta TuTh 12:30pm - 1:45pm W 2:00pm - 3:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7218	David O'Brochta TuTh 12:30pm - 1:45pm W 4:00pm - 5:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7220	David O'Brochta TuTh 12:30pm - 1:45pm Th 8:00am - 9:50am	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7222	David O'Brochta TuTh 12:30pm - 1:45pm Th 10:00am - 11:50am	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7224	David O'Brochta TuTh 12:30pm - 1:45pm Tu 2:00pm - 3:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion
7232	David O'Brochta TuTh 12:30pm - 1:45pm Th 6:00pm - 7:50pm	Seats (Total: 23) SKN 0200 HJP 3233	Discussion

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

CORE: LL

General Education: DSNL,
SCIS

Prerequisite: BSCI170 and BSCI171; or BSCI105.

Fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry and biotechnology.

(Sponsoring Dept.: CBMG) Students must pay a \$40.00 lab materials fee.

1021	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1026	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 9:00am - 10:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1101	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1105	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1106	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am MW 10:00am - 11:50am	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1121	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1126	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1201	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab

1206	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am MW 12:00pm - 1:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1221	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1225	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1226	Daniel Dwyer, Kevin Mclver TuTh 11:00am - 11:50am TuTh 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1301	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
1306	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1206	Lab
1311	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am MW 2:00pm - 3:50pm	Seats (Total: 20) BRB 1101 MCB 1205	Lab
1321	Kevin Mclver, Daniel Dwyer TuTh 11:00am - 11:50am TuTh 4:00pm - 5:50pm	Seats (Total: 20) BRB 1101 MCB 1201	Lab
SES1	David Rollins TuTh 6:00pm - 6:50pm TuTh 7:00pm - 9:00pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 18) MCB 1207 MCB 1201	Lab

SES2	David Rollins	Seats (Total: 18)
	TuTh 6:00pm - 6:50pm	MCB 1207
	TuTh 7:00pm - 9:00pm	MCB 1205 Lab
<p><i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>		

BSCI258
College Park Scholars Internship

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Credit to be determined by CPS Director. Must be completed by end of sophomore year.

(Sponsoring Dept.: BSCI).

8005	Reid Compton	Seats (Total: 90)
Contact instructor or department for details.		

BSCI279
Supplemental Study; Supplemental Study in Biology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BIOL).

Contact department for information to register for this course.

BSCI279C
Supplemental Study; Catalyst Program Seminar

(Perm req)

Credits: 1 Grading Method: Regular

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept: BIOL)

0101	Katerina Thompson	Seats (Total: 47)
	M 3:30pm - 5:00pm	BPS 1243

BSCI279H
Supplemental Study; Catalyst Program Seminar

(Perm req)

Credits: 1

Grading Method: Regular

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

0101	Katerina Thompson	Seats (Total: 70)
	M 3:30pm - 5:00pm	BPS 1243

BSCI279L**Supplemental Study; Biology I Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

Contact department for information to register for this course.

BSCI279N**Supplemental Study; Biology II Laboratory**

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

Contact department for information to register for this course.

BSCI279P**Supplemental Study; Undergraduate Teaching Seminar**

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

Prerequisite: permission of department.

0101	Francisca Saavedra	Seats (Total: 35)
	Tu 5:00pm - 5:50pm	PLS 1130
0102	Tammatha O'Brien	Seats (Total: 15)
	Contact instructor or department for details.	

0103	Tammatha O'Brien	Seats (Total: 15)
	Contact instructor or department for details.	
0104	Sara Lombardi	Seats (Total: 15)
	Contact instructor or department for details.	
0105	Sara Lombardi	Seats (Total: 15)
	Contact instructor or department for details.	

BSCI279Q Supplemental Study; Readings in Neurophysiology

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: BIOL).

0101	Daniel Butts, Ricardo Araneda, Elizabeth Quinlan, Patrick Kanold	Seats (Total: 10)
	Contact instructor or department for details.	

BSCI279R Supplemental Study; Undergraduate Research Rotation

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI279T Supplemental Study

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

Contact department for information to register for this course.

BSCI279V Supplemental Study; Evolution

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.

Co-Requisite: BSCI 370 This is an optional supplemental discussion course for students currently registered for BSCI 370, Principles of Evolution. Credit for this course cannot be applied to the requirements for any Biological Sciences major specialization.

0101	Sara Via	Seats (Total: 30)	
	Tu 8:00am - 8:50am	BPS 1238	Discussion

BSCI283 Principles of Microbiology

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL, SCIS

Prerequisite: BSCI207 and BSCI222. Credit only granted for: BSCI223 or BSCI283. Additional information: Priority given to BSCI, BCHM and CHEM majors.

Introduction to microorganisms designed for science majors. Genetic principles underlying microbial abilities; microbial structure-function relationships; metabolism, physiology, and ecology of microorganisms; interactions between microorganisms (including pathogens) and their hosts.

(Sponsoring Dept.: CBMG). Students must pay a \$40.00 lab materials fee.

1025	Wade Winkler, Richard Stewart, Daniel Stein	Seats (Total: 20)	
	MW 10:00am - 10:50am	MCB 1207	
	TuTh 9:00am - 10:50am	MCB 1205	Lab
1125	Wade Winkler, Richard Stewart, Daniel Stein	Seats (Total: 20)	
	MW 10:00am - 10:50am	MCB 1207	
	TuTh 12:00pm - 1:50pm	MCB 1205	Lab
1205	Daniel Stein, Richard Stewart, Wade Winkler	Seats (Total: 20)	
	MW 10:00am - 10:50am	MCB 1207	
	MW 12:00pm - 1:50pm	MCB 1205	Lab

BSCI288 Internship; Field Experience

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

(Sponsoring Dept.: BSCI).

Contact department for information to register for this course.

BSCI288H

Internship

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail, Audit

An individual experience arranged by the student with the instructor.

Contact department for information to register for this course.

BSCI289

Off-Campus Internship

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.

(Sponsoring Dept.: BSCI). Provides credit for off-campus research internships. This credit counts as elective toward graduation, but does not satisfy any Biological Sciences degree requirements (For information about research credit that does count toward Biological Sciences contact the Biological Sciences Program, room 1322 Symons Hall). This requires that a contract form be filed with the Director of Undergraduate Research and Internship Programs, Room 1313 Symons Hall, prior to the internship. The contract must be finalized and signed by the research supervisor at the end of the semester before credit will be awarded.

1110	Katerina Thompson	Seats (Total: 15)
Contact instructor or department for details.		

BSCI329

Instructional Assistance Practicum

(Perm req)

Credits: 1-2

Grading Method: Regular,
Pass-Fail, Audit

Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.

Prerequisite: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

1016	Hilary Bierman	Seats (Total: 5)
Contact instructor or department for details.		
1370	Sergei Sukharev	Seats (Total: 5)
Contact instructor or department for details.		

BSCI329H Instructional Assistance Practicum; Honors Instructional Assistance Practicum

(Perm req)

Credits: 1-2

Grading Method: Regular,
Pass-Fail, Audit

Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.

Prerequisite: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

2080	Todd Cooke	Seats (Total: 20)
	Contact instructor or department for details.	
2350	Byrn Quimby	Seats (Total: 20)
	Contact instructor or department for details.	

BSCI330 Cell Biology and Physiology

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.

Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.

(Sponsoring Dept: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV, and GENB. Students must pay a \$40.00 lab materials fee.

0101	Hadiya Woodham	Seats (Total: 24)
	MWF 9:00am - 9:50am	BRB 1101
	M 11:00am - 1:50pm	BPS 0207 Lab
0102	Hadiya Woodham	Seats (Total: 24)
	MWF 9:00am - 9:50am	BRB 1101
	M 2:00pm - 4:50pm	BPS 0207 Lab
0103	Hadiya Woodham	Seats (Total: 24)
	MWF 9:00am - 9:50am	BRB 1101
	M 6:00pm - 8:50pm	BPS 0207 Lab

0104	Hadiya Woodham MWF 9:00am - 9:50am Tu 9:30am - 12:20pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
0105	Hadiya Woodham MWF 9:00am - 9:50am Tu 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
0106	Hadiya Woodham MWF 9:00am - 9:50am W 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
0107	Hadiya Woodham MWF 9:00am - 9:50am W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
0108	Hadiya Woodham MWF 9:00am - 9:50am Th 9:30am - 12:20pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
0109	Hadiya Woodham MWF 9:00am - 9:50am Th 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0207	Lab
1101	Kan Cao, Kenneth Frauwirth, Hadiya Woodham TuTh 9:30am - 10:45am M 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
1102	Kan Cao, Hadiya Woodham, Kenneth Frauwirth TuTh 9:30am - 10:45am Tu 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
1103	Kan Cao, Kenneth Frauwirth, Hadiya Woodham TuTh 9:30am - 10:45am Tu 2:30pm - 5:20pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab

1104	Kan Cao, Kenneth Frauwirth, Hadiya Woodham TuTh 9:30am - 10:45am Tu 6:00pm - 8:50pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
1106	Kan Cao, Kenneth Frauwirth, Hadiya Woodham TuTh 9:30am - 10:45am W 2:00pm - 4:50pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
1107	Hadiya Woodham, Kenneth Frauwirth, Kan Cao TuTh 9:30am - 10:45am Th 11:00am - 1:50pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
1108	Kenneth Frauwirth, Kan Cao, Hadiya Woodham TuTh 9:30am - 10:45am Th 2:30pm - 5:20pm	Seats (Total: 24) BRB 1101 BPS 0213	Lab
SES1	Elizabeth Read-Connole Tu 6:30pm - 9:30pm Th 6:30pm - 9:30pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 24) BPS 1238 BPS 0213	Lab

BSCI334

Mammalogy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI207. And minimum grade of C- in BSCI160 and BSCI161; or minimum grade of C- in BSCI106.

Introduction to the biology of mammals, including evolution, physiological, and behavioral specializations.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and ECEV.

0101	Katerina Thompson	Seats (Total: 75)
	TuTh 12:30pm - 1:45pm	PLS 1140

BSCI335 Mammalogy Laboratory

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI160 and BSCI161; or minimum grade of C- in BSCI106. And minimum grade of C- in BSCI207; and must have completed or be concurrently enrolled in BSCI334.

Lab and field techniques for the study of mammals, focusing on their identification, anatomy, histology, spatial distribution, ecology, and behavior.

(Sponsoring Dept.: BIOL). Students must pay a \$40.00 lab materials fee.

0101	Katerina Thompson	Seats (Total: 20)	
	Tu 2:00pm - 4:50pm	HJP 2230	Lab
0102	Katerina Thompson	Seats (Total: 20)	
	W 2:00pm - 4:50pm	HJP 2230	Lab

BSCI337 Biology of Insects

Credits: 4 Grading Method: Regular,
Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106; or permission of CMNS-Entomology department.

An overview of the biology, evolution and diversity of insects and their relatives. Insect morphology, physiology, behavior and ecology; the impact of insects on humanity and the management of pest insect populations; assembly of an insect collection is required.

(Sponsoring Dept.: ENTM). Specialization Areas: GENB and ECEV. Students must pay a \$40.00 laboratory materials fee.

0101	Jian Wang	Seats (Total: 18)	
	TuTh 9:30am - 10:45am	PLS 1113	
	Th 2:00pm - 4:50pm	PLS 1161	Lab
0102	Jian Wang	Seats (Total: 18)	
	TuTh 9:30am - 10:45am	PLS 1113	
	Tu 2:00pm - 4:50pm	PLS 1161	Lab

BSCI338D Special Topics in Biology; Complexity of Cancer

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338F Special Topics in Biology; iGEM Research Seminar

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Permission of the instructor required. This course is open to iGEM team members to develop a synthetic biology research project for the international Genetically Engineered Machines competition.

0101	Jason Kahn, Byrn Quimby, Edward Eisenstein	Seats (Total: 25)
	Th 4:00pm - 4:50pm	JMP 2202

BSCI338I Special Topics in Biology; Medical Biotechnology & Drug Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338J Special Topics in Biology; Medical Exploration of HIV/AIDS

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338M Special Topics in Biology; Human Health and Disease: A Clinical Approach

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Contact department for information to register for this course.

BSCI338N Special Topics in Biology; Diseases of the Nervous System

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI330. An advanced course covering the function and organization of the nervous system as revealed by pathology and disease. (Sponsoring DEPT: BIOL). Acceptable toward Biological Sciences specialization areas: PHNB, ZOOL, and GENB.

0101	Quentin Gaudry	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	MCB 1207

BSCI338P Special Topics in Biology; Pathophysiology of Circulatory System

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI230 or BSCI330; or permission of instructor. Seminar course focusing on the physiology of the cardiovascular system and on the rationales behind the development of specific drugs and intervention methodologies used in the treatments of pathological conditions. (Sponsoring Dept: BIOL). Acceptable towards Biological Sciences Specialization Areas: ZOOL, PHNB, GENB, and CEBG.

0101	Ibrahim Ades	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	PLS 1172

BSCI338Q Special Topics in Biology; Conservation Laboratory

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Pre- or corequisite: BSCI363. (Sponsoring Dept: BIOL). Acceptable towards Biological Sciences Program Specialization Areas: ZOOL (EEB area); BEES (elective); GENB (category II). Also, acceptable as restricted elective in ENSP-Biodiversity and Conservation Biology. Students must pay a \$40.00 lab materials fee.

0101	Keryn Gedan	Seats (Total: 22)	
	M 2:00pm - 4:50pm	BPS 0205	Lab
0103	Keryn Gedan	Seats (Total: 22)	
	W 2:00pm - 4:50pm	BPS 0205	Lab

BSCI338X**Special Topics in Biology; Sexual Selection in Nature**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

Prerequisite: BSCI207; Recommended: BSCI360 and BSCI370; or permission of the Instructor. Sexual selection drives some of most spectacular, if not bizarre, traits in nature. In this course, we emphasize the genetic basis and fitness consequences of traits involved in selecting and competing for mates and fertilization. We will explore how this powerful and pervasive evolutionary force shapes sexual traits and regulates species boundaries. (Sponsoring Dept. BIOL). Acceptable toward Sciences specialization areas areas: ECEV and GENB (Ecology, Behavior & Organismal Area).

0101	Heidi Fisher	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	BPS 0283

BSCI338Z**Special Topics in Biology; Field Research**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major. Contact the Biology Department Undergraduate Office for course information.

Contact department for information to register for this course.

BSCI339C**Selected Topics in Biology; Cell Biology Lab**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: BSCI420. Credit will be granted for BSCI339C or BSCI421. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB. Students must pay a \$40.00 lab materials fee.

0101	Hadiya Woodham	Seats (Total: 3)	
	Tu 1:00pm - 4:50pm	PLS 1171	Lab
0102	Hadiya Woodham	Seats (Total: 3)	
	W 1:00pm - 4:50pm	Location: TBA	Lab

BSCI339E**Selected Topics in Biology; Developmental Genetics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: BSCI222 and BSCI430. Focus is placed on the structure, expression and regulation of genes controlling plant and animal development. (Sponsoring Dept: BIOL). Applicable towards Biological Sciences Specialization Areas: GENB, CEBG.

0101	Eric Haag	Seats (Total: 15)
	TuTh 9:30am - 10:45am	BPS 1234

BSCI339G Selected Topics in Biology; Advanced Physiology

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisite: Permission of department. For students who have completed BSCI 440, Mammalian Physiology and want to explore how organ systems are designed to solve fundamental physiological problems. Diverse examples, from comparative physiology to clinical cases, will be considered to illustrate basic principles of systems physiology. (Sponsoring Dept. BIOL). Applicable towards Biological Sciences Specialization areas: PHNB.

0101	Joshua Singer	Seats (Total: 16)
	Tu 2:00pm - 3:50pm	BPS 2249

BSCI339J Selected Topics in Biology; Population and Evolutionary Genetics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Prerequisites: A grade of C- or better in BSCI222 and either MATH131 or MATH141. Genetic variation within a population provides the basis for future evolution as well as a record of past evolution. The genomics revolution provides data on this variation that, together with mathematical models, allow us to read this record to reconstruct evolutionary trajectories. Examples will focus on hominin and pathogen evolution. In the lab, students will use models to explore how genetic variation (allele frequencies) changes over time and space. (Sponsoring Dept: BIOL). Applicable towards Biological Sciences Specialization Areas: CEBG (genetics); ECEV, and GENB (Genetics & Evolution). A \$40 lab fee is required.

0101	Philip Johnson	Seats (Total: 12)
	MW 10:00am - 10:50am	HBK 0123
	F 10:00am - 11:50am	HJP 3233 Lab

BSCI339L Selected Topics in Biology; Biogeography

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Lectures, seminars, and other selected instruction courses in various biological subject matter.

Pre-requisite: BSCI207. Applicable towards Biological Sciences Specialization Areas: ECEV, GENB. (Sponsoring Dept. BIOL). Biogeography is the study of the geography of life, of why species and ecosystems exist where they do now and in the past. It weaves together biology, geology, geography, and other disciplines. This course will introduce you to this fascinating science by tracing its history, exploring major themes, and noting its relevance to current issues.

0101	William Burnside	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	PHY 4221

BSCI348 Special Topics in Cell Biology and Molecular Genetics

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

(Sponsoring Dept.: CBMG). May be repeated, but only 3 credits may be applied to major requirements.

Contact department for information to register for this course.

BSCI348A Special Topics in Cell Biology and Molecular Genetics; Scientific Teaching Internship

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will act as Undergraduate Teaching Assistants for BSCI223. Prerequisite: A or B in BSCI223 and permission of instructor. Student must be available for one of the BSCI223 lab periods. Students interested in this teaching/leadership opportunity should contact Dr. Richard Stewart with for application information: alec@umd.edu. This course is applicable for the Enrichment credits required of all Biological Sciences students in majors with 0404 codes. For others this is elective credit. (Sponsoring Dept.: CBMG).

0101	Richard Stewart	Seats (Total: 22)
	F 8:00am - 8:50am	PLS 1129
	Contact instructor or department for details.	

BSCI348I**Special Topics in Cell Biology and Molecular Genetics; Scientific Readings in Infectious Disease Processes**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will learn about this cutting edge discipline, read original research papers in these disciplines, and be guided toward how to interpret and critique these research papers.

SES1	Volker Briken	Seats (Total: 15)
	Tu 6:00pm - 9:00pm	PLS 1164
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>		

BSCI348P**Special Topics in Cell Biology and Molecular Genetics; Introductory Biology Curriculum and Instruction Practicum**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

Students will learn about methodologies and curriculum tools applicable to the field of undergraduate science education; the practicum component of the course will allow students to directly apply such innovative approaches through an undergraduate teaching and learning assistantship (UTLA) in conjunction with BSCI105. Prerequisite: A or B in BSCI105 and permission of instructor. Students must be available for one of the BSCI105 lecture periods. Students interested in this teaching/leadership opportunity should contact Dr. Patricia Shields (pshields@umd.edu) for further information. This course is applicable for the Enrichment credits required of all Biological students in majors with 0404 codes. For others this is an elective credit. (Sponsoring Dept.: CBMG).

0101	Elanor Spadafora, Patricia Shields	Seats (Total: 20)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

BSCI348R**Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI 348 may be applied to major.

An opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course. Web site: <http://www.life.umd.edu/CBMG/progrms/department/micb388r.html> (Sponsoring Dept.: CBMG).

0101	Najib El-Sayed	Seats (Total: 10)
	Contact instructor or department for details.	

BSCI353 Principles of Neuroscience

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

0101	Katrina MacLeod	Seats (Total: 150)
	TuTh 11:00am - 12:15pm	BPS 1250

BSCI361 Principles of Ecology

Credits: 4 Grading Method: Regular,
Pass-Fail

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130 or MATH140).

Basic principles of population, community, and ecosystem ecology. Use of these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

(Sponsoring Dep.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB.

0101	Daniel Gruner	Seats (Total: 25)
	TuTh 9:30am - 10:45am	PLS 1130
	M 1:00pm - 1:50pm	PLS 1146 Discussion
0102	Daniel Gruner	Seats (Total: 25)
	TuTh 9:30am - 10:45am	PLS 1130
	M 2:00pm - 2:50pm	PLS 1146 Discussion

BSCI363 The Biology of Conservation and Extinction

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106.

Ecology, evolutionary biology, and paleontology will be applied to the study of conservation, species invasions, and extinction.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization areas: ECEV and GENB. Instructor recommends that students register for both lecture and lab (BSCI 338Q). Registering for the lab is not required.

0101	Keryn Gedan	Seats (Total: 96)
	MWF 11:00am - 11:50am	BPS 1243

BSCI370 Principles of Evolution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106.

Understanding evolutionary processes in a natural and human environment including adaptation; DNA sequence, protein, and genome evolution; evolution of developmental mechanisms; mechanisms of evolutionary change (mutation, natural selection, drift); epidemiology; coevolution and biological control; speciation; comparative methods; extinction and conservation; human evolution.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, GENB, and ECEV.

0101	Sara Via	Seats (Total: 100)
	TuTh 9:30am - 10:45am	PLS 1140

BSCI378H Cell Biology and Molecular Genetics Department Honors Seminar

Credits: 1 Grading Method: Regular

Required seminar for all students participating in departmental honors research program.

Corequisite: BSCI379H. Restricted to students participating in the CBMG Departmental Honors Program. (Sponsoring Dept.: CBMG).

[Click here for more course information.](#)

0101	Zhongchi Liu	Seats (Total: 23)
	F 2:00pm - 2:50pm	BRB 3101

BSCI379G**Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Prerequisite: permission of department. See CBMG department Undergraduate office. (Sponsoring Dept: CBMG).

Contact department for information to register for this course.

BSCI379H**Cell Biology and Molecular Genetics Department Honors Research**

(Perm req)

Credits: 1-3

Grading Method: Regular

Student should consult program guidelines. Research project carried out under guidance of faculty advisor.

Corequisite: BSCI378H. Restricted to students participating in the CBMG Departmental Honors Program. (Sponsoring Dept.: CBMG).

Click here for detailed program information.

Contact department for information to register for this course.

BSCI379P**Cell Biology and Molecular Genetics Department Research; Research in Plant Biology**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a member of the department.

Prerequisite: permission of department. See CBMG Undergraduate office. (Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI389**Entomology Department Research**

(Perm req)

Credits: 1-2

Grading Method: Regular,
Pass-Fail, Audit

Credit to be determined by the department. Should be taken during the junior year. Investigations of assigned entomological problems. No more than 4 credit hours of BSCI389 may be applied to the 120 credit hours needed for the Bachelor's degree.

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI389H Entomology Department Honors Research

(Perm req)

Credits: 1-2 Grading Method: Regular

(Sponsoring Dept.: ENTM).

Contact department for information to register for this course.

BSCI398H Biology Department Honors Seminar

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit*Required seminar for all students participating in departmental honors research program.*

Prerequisite: permission of department. (Sponsoring Dept.: BIOL).

1000	Marjorie Reaka	Seats (Total: 35)
	M 4:00pm - 4:50pm	BPS 1208

BSCI399 Biology Department Research; Biology Department Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit*Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.*

(Sponsoring Dept: BIOL)

Contact department for information to register for this course.

BSCI399H Biology Department Honors Research

(Perm req)

Credits: 1-2 Grading Method: Regular

A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.

(Sponsoring Dept: BIOL).

Contact department for information to register for this course.

BSCI399L Biology Department Research; Biology Lab Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit*Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.*

Prerequisite: BSCI399 or BSCI399H in the same biology department research lab. Any combination of 3 credits of BSCI 399, BSCI 399L, and BSCI 399H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a biology department research lab before getting permission to take BSCI 399L in the same lab. Students completing at least 4 credits of laboratory research including at least one semester taking BSCI 399L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

Contact department for information to register for this course.

BSCI401**Animal Communication**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. And must have completed one semester of physics; and must have completed one semester of organic chemistry. Recommended: A course in animal behavior or biopsychology. Credit only granted for: BSCI401, BSCI 338W or BIOL 708W. Formerly: BSCI338W.

Examining the mechanisms by which animal produce and receive signals in each sensory modality; and quantifying the type and amount of information conveyed in signals and how animals attend to such information.

(Sponsoring Dept: BIOL) Applicable towards Biological Sciences Specialization Areas: PHNB, ECEV, GENB.

0101	Gerald Wilkinson	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	HBK 0115

BSCI403**Biology of Vision**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI207. Recommended: BSCI222. Credit only granted for: BSCI 338V or BSCI 403. Formerly: BSCI 338V.

An upper level undergraduate course on the physical, molecular, and neural basis of vision.

(Sponsoring Dept: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, GENB, ECEV.

0101	Karen Carleton	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	HBK 0103

BSCI410**Molecular Genetics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI222. And must have completed CHEM233; or (CHEM231 and CHEM232).

An advanced genetics course emphasizing the molecular basis of gene structure and function in the context of modern approaches to the genetics of humans and model organisms.

(Sponsoring Dept.: CBMG) Acceptable toward Biological Sciences specialization areas: PHNB, MICB, CEBG, GENB and ECEV.

0101	Zhongchi Liu, Louisa Wu	Seats (Total: 150)
	TuTh 11:00am - 12:15pm	HJP 0226

BSCI412 Microbial Genetics

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI223 and BSCI222.

A laboratory/lecture based course that covers the fundamentals of mutation, mobile genetic elements and transmission genetics of microbial organisms using both classical and molecular approaches.

(Sponsoring Dept: CBMG). Acceptable toward Biological Sciences Specialization Areas: MICB, CEBG, and GENB. Students must pay a \$40.00 lab materials fee.

0101	Vincent Lee	Seats (Total: 18)
	TuTh 12:30pm - 1:30pm	MCB 1207
	TuTh 1:30pm - 4:30pm	MCB 1143 Lab
0103	Vincent Lee	Seats (Total: 18)
	TuTh 12:30pm - 1:30pm	MCB 1207
	TuTh 1:30pm - 4:30pm	MCB 1138 Lab

BSCI413 Recombinant DNA

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI330, BSCI223, or BSCI230; and BSCI222. Formerly: ZOOL452.

An advanced course presenting the tools and procedures of genetic engineering. Theory and practical applications of recombinant DNA techniques to understanding eukaryotic gene structure and expression.

(Sponsoring Dept.: CBMG).

Contact department for information to register for this course.

BSCI416**Human Genetics**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

*Prerequisite: Minimum grade of C- in BSCI410. Recommended: BSCI330.**Approaches to human genetics and applications to biology and medicine focusing on specific human genetic topics using primary research papers as the main resource.*

0101	John Moulton, Stephen Mount	Seats (Total: 48)
	MW 3:30pm - 4:45pm	BPS 0283

BSCI417**Microbial Pathogenesis**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: CS

General Education: DSSP

*Prerequisite: BSCI223 and BSCI222. Restriction: Junior standing or higher. Credit only granted for: BSCI348M or BSCI417. Formerly: BSCI348M.**Current research in microbial pathogenesis and the molecular and cellular basis of bacterial disease. Comprehensive overview of the molecular basis of pathogenesis with a focus on model microbial systems to illustrate mechanisms of disease pathogenesis. Topics covered: how microorganisms attach to and enter cells; how host cells are damaged by microbial products; how the host responds to invasion; and host-pathogen evolution.*

0101	Daniel Stein	Seats (Total: 30)
	TuTh 9:30am - 10:45am	BPS 1238

BSCI420**Cell Biology Lectures**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.**Molecular and biochemical bases of cellular organization and function in eukaryotes.*

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB.

0101	Stephen Wolniak	Seats (Total: 50)
	TuTh 8:00am - 9:15am	PLS 1140

BSCI421**Cell Biology**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.

Molecular and biochemical basis of cellular organization and function in eukaryotes.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB. Students must pay a \$40.00 lab materials fee.

0101	Hadiya Woodham, Stephen Wolniak	Seats (Total: 20)		
	TuTh 8:00am - 9:15am	PLS 1140		
	Tu 1:00pm - 4:50pm	PLS 1171	Lab	
0102	Hadiya Woodham, Stephen Wolniak	Seats (Total: 20)		
	TuTh 8:00am - 9:15am	PLS 1140		
	W 1:00pm - 4:50pm	PLS 1171	Lab	

BSCI422**Principles of Immunology**

Credits: 3 Grading Method: Regular

Prerequisite: BSCI223 and BSCI222. Recommended: BSCI330. Restriction: Junior standing or higher.

The immune system in health and disease. Presentation and analysis of the cellular and molecular processes that comprise the immune system.

Also offered as CBMG699W. (Sponsoring Dept.: CMBG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG, and GENB.

0101	Kenneth Frauwirth, David Mosser	Seats (Total: 25)		
	MW 12:00pm - 12:50pm	PLS 1140		
	Th 12:30pm - 1:20pm	CHE 2145	Discussion	
0102	David Mosser, Kenneth Frauwirth	Seats (Total: 25)		
	MW 12:00pm - 12:50pm	PLS 1140		
	F 2:00pm - 2:50pm	PLS 1146	Discussion	
0103	Kenneth Frauwirth, David Mosser	Seats (Total: 25)		
	MW 12:00pm - 12:50pm	PLS 1140		
	F 11:00am - 11:50am	CSI 3118	Discussion	

0104	Kenneth Frauwirth, David Mosser MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) PLS 1140 PLS 1146	Discussion
SES1	Sandra Fox-Moon W 6:00pm - 9:00pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 30) MCB 1207	
SG91	Scott Walsh TuTh 11:00am - 12:15pm <i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other student to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>	Seats (Total: 40) BLD2 3012	

BSCI423

Immunology Laboratory

Credits: 2 Grading Method: Regular

Prerequisite: BSCI223 and BSCI222. Corequisite: BSCI422. Restriction: Junior standing or higher.

Current techniques for assessment of immune status and evaluation of the immune response, including monoclonal antibody production, Western blotting, cytokine assays, ELISA and flow cytometry.

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG and GENB. Students must pay a \$40.00 lab materials fee.

0101	Wenxia Song MW 2:00pm - 3:50pm	Seats (Total: 20) MCB 1143	Lab
0103	Wenxia Song MW 3:00pm - 4:50pm	Seats (Total: 20) MCB 1135	Lab

BSCI424

Pathogenic Microbiology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI223.

The role of bacteria and fungi in the diseases of humans with emphasis upon the differentiation and culture of microorganisms, types of disease, modes of disease transmission, prophylactic, therapeutic, and epidemiological aspects.

Contact department for information to register for this course.

BSCI430 Developmental Biology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330.

Structural, functional and regulatory events and mechanisms that operate during development to produce an integrated, multicellular organism composed of a multitude of differentiated cell types.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, ECEV, and GENB.

0101	William Jeffery	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	PLS 1130

BSCI433 Biology of Cancer

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330; or permission of CMNS-Biological Sciences UG Program.

Causes and consequences of neoplastic transformations at the biochemical and cellular levels.

(Sponsoring Dept.: BIOL). Acceptable towards Biological Sciences Specialization Areas: PHNB, CEBG, and GENB.

0101	Ibrahim Ades	Seats (Total: 100)
	TuTh 9:30am - 10:45am	BPS 1250
SG91	Beth Parent	Seats (Total: 40)
	M 9:30am - 12:20pm	BLD2 3012
<i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		

BSCI437 General Virology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.

Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.

(Sponsoring Dept.: CBMG). Specialization Areas: MICB, CEBG, and GENB.

0101	Jeffrey DeStefano, Sabrina Kramer	Seats (Total: 80)
	MWF 11:00am - 11:50am	MCB 1207

BSCI440 Mammalian Physiology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI330; and (CHEM231 and CHEM232; or must have completed CHEM233). Or permission of CMNS-Biological Sciences UG Program.

A study of the cardiovascular, hemopoietic, gastrointestinal, renal and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals. Course does not count as an upper level lab for BIOL majors (see BSCI441).

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, and GENB.

0101	Sergei Sukharev	Seats (Total: 30)
	MWF 9:00am - 9:50am	BPS 1250
	M 12:00pm - 1:50pm	PLS 1111 Discussion
0102	Sergei Sukharev	Seats (Total: 30)
	MWF 9:00am - 9:50am	BPS 1250
	Tu 12:00pm - 1:50pm	HBK 0123 Discussion
0103	Sergei Sukharev	Seats (Total: 30)
	MWF 9:00am - 9:50am	BPS 1250
	W 10:00am - 11:50am	PLS 1113 Discussion
1101	Justicia Opoku-Edusei	Seats (Total: 30)
	MWF 10:00am - 10:50am	ARM 0135
	M 12:00pm - 1:50pm	BPS 1232 Discussion

1102	Justicia Opoku-Edusei MWF 10:00am - 10:50am M 2:00pm - 3:50pm	Seats (Total: 30) ARM 0135 PLS 1111	Discussion
1103	Justicia Opoku-Edusei MWF 10:00am - 10:50am Tu 2:00pm - 3:50pm	Seats (Total: 30) ARM 0135 SPH 0305	Discussion
1104	Justicia Opoku-Edusei MWF 10:00am - 10:50am W 12:00pm - 1:50pm	Seats (Total: 30) ARM 0135 BPS 1232	Discussion
1105	Justicia Opoku-Edusei MWF 10:00am - 10:50am F 2:00pm - 3:50pm	Seats (Total: 30) ARM 0135 CHM 0122	Discussion
SES1	William Higgins Tu 6:00pm - 9:00pm Th 6:00pm - 9:00pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 30) PLS 1140 PLS 1140	Discussion
SG91	David Sandstrom MWF 11:00am - 12:15pm <i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for UMCP undergraduate students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>	Seats (Total: 45) BLD2 3022	

BSCI441

Mammalian Physiology Laboratory

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in BSCI440.

Laboratory exercises in experimental mammalian physiology.

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Program Specialization Areas: PHNB and GENB). Students must pay a \$40.00 lab materials fee.

0101	Hilary Bierman	Seats (Total: 20)	
	M 1:00pm - 1:50pm	BPS 1243	
	M 2:00pm - 5:50pm	PLS 1181	Lab
0103	Hilary Bierman	Seats (Total: 20)	
	M 1:00pm - 1:50pm	BPS 1243	
	Tu 2:00pm - 5:50pm	PLS 1181	Lab
0104	Hilary Bierman	Seats (Total: 20)	
	M 1:00pm - 1:50pm	BPS 1243	
	W 2:00pm - 5:50pm	PLS 1181	Lab
0106	Hilary Bierman	Seats (Total: 20)	
	M 1:00pm - 1:50pm	BPS 1243	
	Th 2:00pm - 5:50pm	PLS 1181	Lab

BSCI442

Plant Physiology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or BSCI105; or PLSC201. And CHEM231 and CHEM232; or CHEM237; or permission of CMNS-Biological Sciences UG Program. Restriction: Must not have completed ENST407; or must not have completed PLSC400. Also offered as: PLSC400, ENST407. Credit only granted for: BSCI442, ENST407, or PLSC400.

A survey of plant physiology and development and responses and adaptation to the environment

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

0101	Jose Feijo, Wendy Peer	Seats (Total: 11)	
	MWF 11:00am - 11:50am	PLS 1130	
	Tu 9:30am - 12:30pm	PLS 1153	Lab
0102	Wendy Peer, Jose Feijo	Seats (Total: 14)	
	MWF 11:00am - 11:50am	PLS 1130	
	Tu 4:00pm - 6:50pm	PLS 1153	Lab

BSCI446

Neural Systems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI330 and BSCI353.

Neural development, followed by sensory, motor and integrative system organization in the central nervous system. Sponsoring Dept. (BIOL) Specialization Areas: PHNB, GENB.

0101	Ricardo Araneda	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	PLS 1119

BSCI447

General Endocrinology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI330, CHEM241, and CHEM242.

Functions and the functioning of the endocrine glands of animals with special reference to the vertebrates.

(Sponsoring Dept.: ENTM). Acceptable toward Biological Sciences Specialization Areas: PHNB and GENB.

0101	Tammatha O'Brien	Seats (Total: 70)
	TuTh 11:00am - 12:15pm	PLS 1140

BSCI454

Neurobiology Laboratory

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI330; and must have completed or be concurrently enrolled in BSCI353; and must have completed or be concurrently enrolled in PHYS122, PHYS132, or PHYS142.

Basic neuroanatomical techniques, intracellular and extracellular recordings of electrical potentials from nerve and muscle.

(Sponsoring Dept.: BIOL). Specialization areas: CEBG, PHNB, and GENB. Students must pay a \$40.00 lab materials fee.

0102	Hilary Bierman	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	BPS 0257 Lab
0103	Hilary Bierman	Seats (Total: 20)
	W 2:00pm - 5:00pm	BPS 0257 Lab
0104	Hilary Bierman	Seats (Total: 20)
	Th 2:00pm - 5:00pm	BPS 0257 Lab

SG91	David Sandstrom Tu 2:00pm - 5:00pm	Seats (Total: 16) BLD2 4012 Lab
<i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		
SG92	David Sandstrom Th 2:00pm - 5:00pm	Seats (Total: 16) BLD2 4012 Lab
<i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		

BSCI457

Topics in Brain Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI353 or BSCI454; or permission of instructor.

Brain development and plasticity focusing on current research topics will be explored. Students will develop an appreciation for modern hypotheses of brain development and plasticity, and, of the problems that contemporary developmental neuroscience seeks to address. Course will be structured around topics ranging from establishment of cell identity to experience dependent plasticity.

(Sponsoring Dept.: BIOL). Specialization areas: PHNB and GENB (Cell Biology, Development, and Physiology area).

0101	Patrick Kanold Tu 3:00pm - 5:30pm	Seats (Total: 20) BPS 1208
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BSCI462

Population Ecology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH130. And BSCI160 and BSCI161; or BSCI106.

Theory of population growth and regulation, life tables, and theory of competition and predation, evolution in ecological settings, community structure and dynamics.

0101	Karen Lips MW 9:30am - 10:45am	Seats (Total: 30) BPS 0283
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BSCI473

Marine Ecology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI207.

Courses in evolution and animal behavior are strongly recommended. A detailed analysis of the evolutionary ecology of marine invertebrates; emphasis on testing of theories and on current literature.

0101	Marjorie Reaka	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	HBK 0115

BSCI480 Arthropod Form and Function

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of CMNS-Entomology (AGNR).

Survey of the morphological, systematic and physiological diversity of the phylum Arthropoda.

(Sponsoring Dept.: BSCI) Students must pay a \$40.00 lab materials fee.

0101	Jeffrey Shultz	Seats (Total: 20)
	MWF 10:00am - 10:50am	PLS 1146
	M 2:00pm - 5:00pm	PLS 1161 Lab

BSCV CIVICUS Spring 2016

BSCV182 Civicus and Service-Learning

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCV191 and BSCV181; and must have completed or be concurrently enrolled in SOCY105. Restriction: Must be in the Civicus program. Credit only granted for: BSOS182 or BSCV182. Formerly: BSOS182.

Students will examine domestic societal issues and their national, regional, and local dimensions from political, economic, and policy perspectives. Students will work with local direct service non-profit organizations.

0101	Sue Briggs, Julie Randolph	Seats (Total: 26)
	M 3:30pm - 5:15pm	SOM 0101
0201	Sue Briggs	Seats (Total: 26)
	Tu 3:30pm - 5:15pm	SOM 0101

0301	Julie Randolph	Seats (Total: 26)
	Th 2:00pm - 3:45pm	SOM 0101

BSCV302 Civicus Capstone

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCV301. Restriction: Sophomore standing or higher. Credit only granted for: BSOS302 or BSCV302. Formerly: BSOS302.

Capstone course required for CIVICUS citation. Supervised internship, community service, or research project on civil society topic. Application and continued study of skills and concepts, grounded in the social sciences, relevant to understanding and effectively dealing with contemporary social issues.

0101	Sue Briggs	Seats (Total: 25)
	M 7:00pm - 9:00pm	SOM 0101
	Contact instructor or department for details.	
0201	Sue Briggs	Seats (Total: 25)
	Tu 6:00pm - 8:00pm	SOM 0101
	Contact instructor or department for details.	
0301	Sue Briggs	Seats (Total: 25)
	W 6:00pm - 8:00pm	SOM 0101
	Contact instructor or department for details.	

BSCV309 Civicus Seminar

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Review and analysis of contemporary social issues.

0101	Sue Briggs	Seats (Total: 3)
	Contact instructor or department for details.	
0201	Sue Briggs	Seats (Total: 10)
	Contact instructor or department for details.	

BSGC Global Communities Spring 2016

BSGC102 Global Issues

(Perm req) Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: IE General Education: DSHS,
DVUP

Prerequisite: BSGC101. Restriction: Must be in Global Communities Living-Learning program.

A survey of some of the major global challenges facing society today, such as human trafficking, nuclear security, and global health. We explore contending approaches to resolving problems, culminating in a major group project.

0101	Virginia Haufler	Seats (Total: 25)	
	Tu 3:30pm - 4:45pm	TWS 1100	
	Th 11:00am - 12:15pm	DOR 0128	Discussion
0102	Virginia Haufler	Seats (Total: 25)	
	Tu 3:30pm - 4:45pm	TWS 1100	
	Th 2:00pm - 3:15pm	DOR 0128	Discussion
0103	Virginia Haufler	Seats (Total: 25)	
	Tu 3:30pm - 4:45pm	TWS 1100	
	Th 9:30am - 10:45am	DOR 0128	Discussion

BSGC386 **Experiential Learning in Global Communities: Global Internship**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Restriction: Must be in Global Communities Living-Learning program. Credit only granted for: BSGC398E or BSGC386. Formerly: BSGC398E.

Experiential Learning in Global Communities: Global Internship, will give students an opportunity to connect theory with practice.

0101	Natalie Vinski	Seats (Total: 10)	
	Contact instructor or department for details.		

BSGC398A **BSGC Experiential Learning in Global Communities: Global Service; Alternative Break/International Service**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Experiential learning is an integral element of the Global Communities program. Students will gain an understanding of social issues in marginalized communities, engage in service-learning, and develop an action plan for civic engagement in a diverse global society.

Restriction: Must be in Global Communities Living-Learning program. GC students who receive acceptance into select Alternate Breaks or International Service programs can apply for Global Experience credit by enrolling in BSGC 398A. This course will meet periodically throughout the semester and will require directed readings, reflective writings, and projects related to your Alternative Break/International Service experience.

0101	Malaika Serrano	Seats (Total: 30)
Contact instructor or department for details.		

BSGC399 Topical Investigations in Global Communities

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Variable from 1-3 credits and repeatable up to 6 if content varies.

Restriction: Must be in Global Communities Living-Learning Program.

0101	Virginia Haufler	Seats (Total: 5)
Contact instructor or department for details.		

BSOS Behavioral and Social Sciences Spring 2016

BSOS248A Leadership Seminar I; Leadership Seminar I Ambassadors

(Perm req)

Credits: 2 Grading Method: Regular

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS248P Leadership Seminar I; Peer Mentors

Credits: 1 Grading Method: Regular

A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.

Contact department for information to register for this course.

BSOS258P Leadership Practicum I; Leadership Practicum I (Peer Mentors)

Credits: 1 Grading Method: Regular

This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS288I Special Topics in Behavioral and Social Sciences; Internship Practicum in the Social Sciences
(Perm req) Credits: 1-3 Grading Method: Regular
Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.

Contact department for information to register for this course.

BSOS358A Leadership Practicum II
(Perm req) Credits: 1 Grading Method: Regular
This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358D Leadership Practicum II; Leadership Practicum II DSAC
(Perm req) Credits: 2 Grading Method: Regular
This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358L Leadership Practicum II; DSAC Officers
(Perm req) Credits: 1 Grading Method: Regular
This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS358P Leadership Practicum II; Peer Mentors
(Perm req) Credits: 1 Grading Method: Regular,
Pass-Fail, Audit
This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.

Contact department for information to register for this course.

BSOS386 Experiential Learning
(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Contact department for information to register for this course.

BSOS388B Behavioral and Social Sciences Special Topics; Innovation and Social Change: Do Good Now

Credits: 3 Grading Method: Regular, General Education: DSSP,
Pass-Fail, Audit SCIS

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Also offered as HONR348D and PUA388D. Credit will be granted for BSOS388B, HONR348D or PUA388D. This is a BSOS Solutions Lab and a Fearless Ideas course offered in collaboration with PUA388D and HONR348D. Explore the many mechanisms for achieving social impact through social innovation. This is team-based, highly interactive and dynamic course, that provides an opportunity for students to generate solutions to a wide range of problems facing many communities today. This course deepens the students understanding of entrepreneurship and innovation practices by guiding them through the creation and implementation process as applied to a project idea of their choice. These projects serve as the laboratory to implement topics such as design systems thinking, developing and communicating a strategy and goals, project management and implementation skills, teamwork and talent management, fundraising and revenue generation, marketing and partner development, leadership skills and project sustainability. For more information, visit dogood.umd.edu or email bsos-ugdean@umd.edu.

0101	T'Sey-Haye Preaster	Seats (Total: 28)
	Tu 2:00pm - 4:30pm	JMZ 0103

BSOS388E Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum

(Perm req) Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388I Behavioral and Social Sciences Special Topics; Social Science Internship Practicum

(Perm req) Credits: 1-3 Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388P Behavioral and Social Sciences Special Topics; PULSAR Research Seminar; MD Lang Sci Ctr

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisite: permission of department. Contact pulsar@umd.edu.

Contact department for information to register for this course.

BSOS388Q Behavioral and Social Sciences Special Topics; CESAR Directed Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Contact department for information to register for this course.

BSOS388R Behavioral and Social Sciences Special Topics; PULSAR Research Practicum; MD Lang Sci Ctr

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisite: permission of department. Contact pulsar@umd.edu.

Contact department for information to register for this course.

BSOS388T Behavioral and Social Sciences Special Topics; Sustainability Task Force

Credits: 1 Grading Method: Regular

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Must be a member of the BSOS Sustainability Task Force. Contact Amee Bearne at abearne@umd.edu for more information. Repeatable: Up to 3 credits. A student leadership group engaged in the implementation of the BSOS Sustainability Plan. As part of this course, students will explore current topics in sustainability through semester-long projects. This course is part of the BSOS Solutions Lab.

0101	Amee Bearne	Seats (Total: 20)
Contact instructor or department for details.		

BSOS388X Behavioral and Social Sciences Special Topics; Innovation in the Public Sector II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.

Prerequisites: BSOS388F or GVPT388B For permission to register, email Margaret Doyle at mdoyle12@umd.edu with your name, UID, and brief statement of why this course is of interest to you.

0101	Samantha O'Neil, Kenneth Ulman	Seats (Total: 20)
	W 4:00pm - 6:30pm	CHT 2113

BSOS399 Directed Study in Behavioral and Social Sciences

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399C Directed Study in Behavioral and Social Sciences; Civicus Undergraduate Teaching Assistant Directed Study

(Perm req)

Credits: 1-3 Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399G Directed Study in Behavioral and Social Sciences; Global Scholars Capstone

(Perm req)

Credits: 1 Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399P Directed Study in Behavioral and Social Sciences; Undergraduate Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS399Q Directed Study in Behavioral and Social Sciences; CESAR

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.

Contact department for information to register for this course.

BSOS448C

Teaching Assistant Practicum; Civicus

(Perm req)

Credits: 1-3

Grading Method: Regular

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448I

Teaching Assistant Practicum; Internship

(Perm req)

Credits: 1

Grading Method: Regular

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSOS448T

Teaching Assistant Practicum; Teaching Assistant Practicum (UNIV)

(Perm req)

Credits: 1

Grading Method: Regular

Supervised practicum for teaching assistants for BSOS/UNIV courses.

Contact department for information to register for this course.

BSST

Terrorism Studies

Spring 2016

BSST331

Response to Terrorism

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in the Terrorism Studies minor program. Credit only granted for: BSOS331 or BSST331. Formerly: BSOS331.

Explores the manners in which a variety of different actors respond to both terrorist incidents and the threat of terrorism. Examines local responses to terrorists incidents; local impacts of terrorism including effects on individual and group attitudes and behaviors; policy decisions made in response to both terrorist attacks and the threat of terrorism; terrorism prevention, deterrence, interdiction, and mitigation efforts; and individual and community recovery from terrorist attacks.

Email education@start.umd.edu for permission.

0101	Katherine Izsak	Seats (Total: 35)
	M 2:00pm - 4:45pm	KEB 1200
	<i>Restricted to students in the Global Terrorism Minor; to obtain permission email education@start.umd.edu.</i>	
0201	Katherine Izsak	Seats (Total: 10)
	M 2:00pm - 4:45pm	KEB 1200
	<i>Restricted to students in one of the following minors: International Development & Conflict Mgmt minor (#BS02), Global Poverty minor (#AG06), or International Engineering minor (#EN01); to obtain permission email education@start.umd.edu with your name and which Global Students program in which you are enrolled.</i>	

BSST334

States of Emergency

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Students will explore the manner in which crises unfold from the perspective of a variety of emergency response disciplines, including: emergency management, law enforcement, intelligence analysis, cyber analysis, risk communication, health and human services, and emergency psychiatry/psychology. Students will participate in a semester-long simulation of an unfolding terrorist attack.

0101	Katherine Izsak	Seats (Total: 40)
	Tu 12:30pm - 1:45pm	JMP 3201
	Th 12:30pm - 1:45pm	ONLINE Discussion
0102	Katherine Izsak	Seats (Total: 40)
	Tu 12:30pm - 1:45pm	JMP 3201
	Th 2:00pm - 3:15pm	ONLINE Discussion
0103	Katherine Izsak	Seats (Total: 40)
	Tu 12:30pm - 1:45pm	JMP 3201
	Th 3:30pm - 4:45pm	ONLINE Discussion

BSST338B

Special Topics in Terrorism Studies; Terrorism and Political Violence: Understanding Terrorism, Insurgency, and Civil Conflict

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

SG91	Steve Sin	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BLD3 4215
<i>Limit to CCJS students at Shady Grove.</i>		

BSST338F Special Topics in Terrorism Studies; Media in War and Crisis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338I Special Topics in Terrorism Studies; Arab-Israeli Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338J Special Topics in Terrorism Studies; Disaster Recovery in Japan

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338N Special Topics in Terrorism Studies; Arms Control in the Nuclear Realm

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BSST338R	Special Topics in Terrorism Studies; Peace & Conflict Honors Seminar II: Regional Conflicts
Credits: 3	Grading Method: Regular, Pass-Fail, Audit
<i>A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.</i>	
Contact department for information to register for this course.	

BSST386	Experiential Learning in Terrorism Studies
(Perm req)	Credits: 3 Grading Method: Regular
<i>Repeatable to 10 credits.</i>	
<i>This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.</i>	
0101	Marcella Morris Seats (Total: 12)
Contact instructor or department for details.	

BSST399D	Individual Study in Terrorism Studies; Literature Review Writing for Terrorism
(Perm req)	Credits: 2 Grading Method: Regular
<i>An independent study course for students in the Global Terrorism Minor program.</i>	
0101	Marcella Morris Seats (Total: 2)
Contact instructor or department for details.	

BSST399E	Individual Study in Terrorism Studies; Community Resilience, Engagement, and Dialogue Career Development Program Part I
(Perm req)	Credits: 1 Grading Method: Regular, Pass-Fail, Audit
<i>An independent study course for students in the Global Terrorism Minor program.</i>	
Prerequisite: Permission of department. Permission only granted for students in the Community Resilience, Engagement, and Dialogue Career Development Program.	
0101	Marcella Morris Seats (Total: 4)
Contact instructor or department for details.	

BSST399R Individual Study in Terrorism Studies; Countering Violent Extremism Fellowship Career Development Part 3

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Prerequisite: permission of department. Open only to students in the Countering Violent Extremism Career Development Program

0101	Marcella Morris	Seats (Total: 4)
	Class time/details on ELMs	ONLINE

BSST399T Individual Study in Terrorism Studies; Teaching Terrorism

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Prerequisite: permission of department.

0101	Katherine Izsak	Seats (Total: 6)
	Contact instructor or department for details.	

BSST399Z Individual Study in Terrorism Studies; Cyber Security and Digital Terrorism, Part II

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Prerequisite: permission of department. Permission granted only for students in the Cyber Security Fellows Career Development Program.

0101	Marcella Morris	Seats (Total: 3)
	Contact instructor or department for details.	

BSST631 Societal Impacts of and Responses to Terrorism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Terrorism Analysis Graduate Certificate Program; or permission of department. Credit only granted for: BSOS631 or BSST631. Formerly: BSOS631.

Explores the manners in which a variety of different actors respond to both terrorist incidents and the threat of terrorism. Examines local responses to terrorist incidents; local impacts of terrorism including effects on individual and group attitudes and behaviors; policy decisions made in response to both terrorist attacks and the threat of terrorism; terrorism prevention, deterrence, interdiction, and mitigation efforts; and individual and community recovery from terrorist attacks.

Restricted to students in the Graduate Certificate in Terrorism Analysis, all other students should contact education@start.umd.edu to obtain permission to register.

ST01	Katherine Izsak	Seats (Total: 25)
	Meets January 25, 2016 - April 14, 2016	
	Tu 7:00pm - 9:30pm	ONLINE
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the Graduate Certificate in Terrorism Analysis, all other students should contact education@start.umd.edu to obtain permission to register.</i>	

BSST633

Research Methods in Terrorism and Counterterrorism

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: BSOS633 or BSST633. Formerly: BSOS633.

Provides students with the opportunity to conduct original research, while exposing them to analytical tools relevant to the study of terrorism. Students will work with a range of data sources on domestic and international terrorism, and will be tasked with using data to test hypotheses related to the causes, behaviors, and/ or impacts of terrorism.

Restricted to students in the Graduate Certificate in Terrorism Analysis, all other students should contact education@start.umd.edu to obtain permission to register.

ST01	Nil Satana	Seats (Total: 40)
	Meets February 11, 2016 - April 28, 2016	
	Th 6:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

BSST638J

Special Topics in Terrorism Studies; Disaster Recovery in Japan

Credits: 3 Grading Method: Regular,
Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

Contact department for information to register for this course.

BUAC711

Financial Planning and Control Systems for Managers and Consultants

Credits: 2 Grading Method: Regular, Audit

Prerequisite: BUSI611, BUSI681, and BUSI630; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT711 and BUAC711. Formerly: BMGT711.

This course provides an analysis of several topics concerning financial planning/control systems (management accounting systems). Topics covered: design and use of cost management systems (including activity based costing systems), financial performance measures for enhancing firm value, managerial incentive contracts and accounting data, management accounting and Internet-based transactions, managing earnings and financial ratios, use of balanced scorecard to evaluate financial/nonfinancial managerial performance, management accounting systems and competitor analysis, behavioral aspects of budgeting, post-auditing of capital investments, accounting/economics aspects of information security, and transfer pricing.

GS01	Lawrence Gordon	Seats (Total: 40)
Meets January 19, 2016 - March 4, 2016		
	Th 6:25pm - 10:00pm	BLD2 3032

BUAC743

Financial Statement Analysis

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.

BA01	Michael Finch	Seats (Total: 40)
Meets January 14, 2016 - March 4, 2016		
M 6:25pm - 10:00pm		BA 101
<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

BUAC758B

Special Topics in Accounting and Information Assurance; Tax Considerations for Strategic Management

Credits: 2 Grading Method: Regular, Audit

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

DC06	Eugene Cantor	Seats (Total: 60)
Meets January 30, 2016 - March 19, 2016		
Sa 2:00pm - 6:30pm		DC C4
Class time/details on ELMs		ONLINE
<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>		

BUAC7580 Special Topics in Accounting and Information Assurance; External Auditing

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Rebecca Martin	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	MW 7:00pm - 8:50pm	VMH 1528
	<i>For MS in Accounting students only.</i>	

BUAC758T Special Topics in Accounting and Information Assurance; Taxation for Individuals

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Jeffrey Milton Meets January 19, 2016 - March 4, 2016 TuTh 12:00pm - 1:50pm <i>For MS in Accounting students only.</i>	Seats (Total: 0) VMH 1511
0502	Jeffrey Milton Meets January 19, 2016 - March 4, 2016 TuTh 5:00pm - 6:50pm <i>For MS in Accounting students only.</i>	Seats (Total: 0) VMH 1330

BUAC758V Special Topics in Accounting and Information Assurance; Taxation of Corporations and Other Entities

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

Co-requisite: BUAC758T. Students who have not previously taken BUAC758T must register for both BUAC758T and BUAC758V in the same semester.

0501	Jeffrey Milton	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 4:00pm - 5:50pm	VMH 1206
	<i>For MS in Accounting students only.</i>	
0502	Samuel Handwerger	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 7:00pm - 8:50pm	VMH 1333
	<i>For MS in Accounting students only.</i>	

BUAC758W Special Topics in Accounting and Information Assurance; Taxation of Not-for-Profit Entities

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets January 14, 2016 - March 6, 2016	
	MW 7:00pm - 8:50pm	VMH 1528
	<i>For MS in Accounting students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

BUAC758X Special Topics in Accounting and Information Assurance; Real Estate Taxation

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Jeffrey Milton	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	MW 12:00pm - 1:50pm	VMH 2505
	<i>For MS in Accounting students only.</i>	

BUAC758Y Special Topics in Accounting and Information Assurance; International Tax

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Selected advanced topics in the various fields of graduate study in accounting and information assurance.

0501	Samuel Handwerger	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	MW 2:00pm - 3:50pm	VMH 1518
	<i>For MS in Accounting students only</i>	

BUAC759 Independent Study in Accounting and Information Assurance

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in accounting and information assurance.

Contact department for information to register for this course.

BUAC787 Internal Auditing II: Internal Audit Application and Practice

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: BUAC786. Restriction: Must be in Business and Management (Master's) program.

This advanced internal auditing course contains an in-depth coverage of the internal audit process. Students receive experience in planning and conducting internal audit assurance and consulting engagements. Also, students build on the theory and techniques introduced in Internal Auditing I, through practical, in-depth coverage of specific audit areas. Other matters covered include audit evidence, workpapers, audit sampling, and communicating of engagement results. Internal auditing case studies are used to reinforce the learning process.

0501	Alan Siegfried, Elizabeth Folsom	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 7:00pm - 9:45pm	VMH 1330
	<i>For MS in Accounting students only.</i>	

0502	Alan Siegfried, Elizabeth Folsom	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	MW 7:00pm - 9:45pm	VMH 1336
	<i>For MS in Accounting students only.</i>	

BUAC790

Information Security, Audit and Control

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Builds on basic information technology (IT) courses, focusing on key issues including IT security, IT controls, and IT auditing. Addressing issues such as auditing a computer information system; assessing risks; identifying control objectives; identifying appropriate audit procedures; learning the concepts and basic features or audit software thereby providing the tools for choosing audit software; conducting an operational audit basic controls over computer information systems; and developing world-class IT control frameworks.

0501	David Sites	Seats (Total: 40)
	Meets January 23, 2016 - March 12, 2016	
	Sa 9:00am - 3:25pm	VMH 1505
	<i>For MS in Accounting students only. Meets 1/23, 1/30, 2/6, 2/13, 2/20, 2/27, 3/5, Final 3/12.</i>	
0502	Alan Siegfried, Matthew Gagnon	Seats (Total: 40)
	Meets January 23, 2016 - March 12, 2016	
	Sa 9:00am - 3:25pm	VMH 1520
	<i>MS in Accounting students only. Meets 1/23, 1/30, 2/6, 2/13, 2/20, 2/27 3/5, Final 3/12.</i>	

BUDT

Decision and Information Technologies

Spring 2016

BUDT706

Social Media and Web 2.0

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Over the past years, social computing technologies such as online communities, blogs, wikis, and social networking systems have become important tools for individuals to seek information, socialize with others, get support, collaborate on work, and express themselves. Increasingly, businesses are trying to leverage web 2.0 by using social computing technologies to communicate with customers, employees, and other business partners or to build new business models. This course will review concepts and principles related to web 2.0 and examine issues and strategies associated with business use of social computing technologies.

0101	Barnet Corwin Meets March 21, 2016 - May 6, 2016 TuTh 2:00pm - 3:50pm	Seats (Total: 50) VMH 1518
GS01	Philip Piety Meets March 21, 2016 - May 6, 2016 Th 6:25pm - 10:00pm	Seats (Total: 40) BLD2 3032

BUDT732

Decision Analytics

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT732 or BUDT732. Formerly: BMGT732.

Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.

0101	Ilya Ryzhov Meets March 21, 2016 - May 6, 2016 MW 4:00pm - 5:50pm	Seats (Total: 60) VMH 1520
DC01	Pamela Armstrong Meets March 21, 2016 - May 6, 2016 W 6:25pm - 10:00pm	Seats (Total: 50) DC C1

BUDT733

Data Mining and Predictive Analytics

Credits: 2 Grading Method: Regular

Prerequisite: BUSI630. Credit only granted for: BMGT733 or BUDT733. Formerly: BMGT733.

Data mining techniques and their use in business decision making. A hands-on course that provides an understanding of the key methods of data visualization, exploration, classification, prediction, time series forecasting, and clustering.

0101	Arnold Greenland	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 10:00am - 11:50am	VMH 1505
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0201	Arnold Greenland	Seats (Total: 45)
	Meets January 14, 2016 - March 4, 2016	
	MW 8:00am - 9:50am	VMH 2505
	<i>First meeting will be Thursday 1/14 to make up for MLK holiday.</i>	

BUDT758B

Special Topics in Decision, Operations and Information Technologies; Big Data

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Anand Gopal, Guodong Gao	Seats (Total: 35)
	Meets January 14, 2016 - May 6, 2016	
	MW 11:00am - 12:15pm	VMH 1518
	<i>For MS in Information Systems students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0502	Guodong Gao, Anand Gopal	Seats (Total: 35)
	Meets January 14, 2016 - May 6, 2016	
	MW 12:30pm - 1:45pm	VMH 1518
	<i>For MS in Information Systems students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

BUDT758F

Special Topics in Decision, Operations and Information Technologies; Google Online Challenge and Analytics

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Il-Horn Hann	Seats (Total: 35)
	Meets January 14, 2016 - May 6, 2016	
	MW 9:30am - 10:45am	VMH 1518
	<i>For MS in Information Systems students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

BUDT758N**Special Topics in Decision, Operations and Information Technologies; Business Process Analysis for Information Systems**

(Perm req)

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Philip Piety	Seats (Total: 0)
Meets January 14, 2016 - May 6, 2016		
MW 2:00pm - 3:15pm	VMH 1528	
<i>For MS in Information Systems students only. 3 credit version of BUDT703. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

0502	Philip Piety	Seats (Total: 0)
Meets January 14, 2016 - May 6, 2016		
MW 3:30pm - 4:45pm	VMH 1528	
<i>For MS in Information Systems students only. 3 credit version of BUDT703. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

BUDT758P**Special Topics in Decision, Operations and Information Technologies; Decision Analytics**

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Ilya Ryzhov	Seats (Total: 45)
Meets January 19, 2016 - May 6, 2016		
TuTh 11:00am - 12:15pm		VMH 1520
<i>For MS in Information Systems students only.</i>		

BUDT758R**Special Topics in Decision, Operations and Information Technologies; Operations and Supply Chain Strategy**

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0101	Zhi-Long Chen	Seats (Total: 35)
Meets January 19, 2016 - March 4, 2016		
TuTh 4:00pm - 5:50pm	VMH 1518	

BUDT758T Special Topics in Decision, Operations and Information Technologies; Data Mining and Predictive Analytics

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Kyungjin Yoo	Seats (Total: 45)
	Meets January 19, 2016 - May 6, 2016	
	TuTh 8:00am - 9:15am	VMH 1520
	<i>For MS in Information Systems students only. 3 credit version of BUDT733.</i>	
0502	Kyungjin Yoo	Seats (Total: 45)
	Meets January 19, 2016 - May 6, 2016	
	TuTh 9:30am - 10:45am	VMH 1520
	<i>For MS in Information Systems students only. 3 credit version of BUDT733.</i>	

BUDT759 Independent Study in Decision and Information Technologies

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.

BUFN Finance Spring 2016

BUFN738 Investment Fund Management

(Perm req)

Credits: 3 Grading Method: Regular

Provides second-year Master in Business Administration students with th opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

DC06	Gurdip Bakshi	Seats (Total: 20)
	Meets January 30, 2016 - May 14, 2016	
	Sa 8:50am - 1:00pm	DC C5
	<i>Meets 1/30, 2/13, 2/27, 3/12, 3/26, 4/9, 4/23, 5/7, 5/14.</i>	

BUFN738A Investment Fund Management; Mayer Fund

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Provides second-year Master in Business Administration students with the opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.

0101	Sarah Kroncke	Seats (Total: 15)
	Meets January 19, 2016 - May 6, 2016	
	TuTh 2:00pm - 3:50pm	VMH 2509

BUFN740

Capital Markets

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Designed to deepen the foundations necessary to finance focused students, especially those intending to specialize in the quantitative areas of finance including investments, fixed income, and financial engineering.

0101	Gurdip Bakshi	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 2:00pm - 3:50pm	VMH 1520
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
BA01	Ceyed Baiju	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	Th 6:25pm - 10:00pm	BA 102

Any remaining seats in BUFN courses will be available to the following groups of students: Students admitted/graduates of UMCP master or PhD program and students admitted/graduates of an AACSB-accredited masters program. Students outside the department should contact the Smith School of Business Masters Program Office starting the first day of registration for specific instructions on how to request a BUFN course. Requests for courses will be reviewed approximately two weeks before the start of the semester. For all course sections with GS, class will be held at the Shady Grove Campus. For all course sections with DC, class will be held at the Ronald Reagan Building/International Trade Center. For all course sections with BA, class will be held at the UMB BioPark Two. For weekend courses, students are responsible for checking their schedule for course conflicts. If a student is registered for weekend courses that conflict, the student should make adjustments to their schedule. If changes are not made, the department can drop the course that was last added to cause the conflict.

BUFN750

Valuation in Corporate Finance

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN714 or BUFN750. Formerly: BUFN714.

An advanced topics course in Corporate Finance dealing with valuation. Main topics will be, building pro forma statements, cost of capital, using ratios and comparables to value projects and firms, discounted cash flow valuations, WACC and APV methods of valuation and Real Option Valuations.

0101	Maria Bustamante Meets January 19, 2016 - March 4, 2016 TuTh 2:00pm - 3:50pm	Seats (Total: 45) VMH 1505
0201	Maria Bustamante Meets January 19, 2016 - March 4, 2016 TuTh 4:00pm - 5:50pm	Seats (Total: 45) VMH 1505
0501	Liu Yang Meets January 19, 2016 - March 4, 2016 TuTh 12:00pm - 1:50pm	Seats (Total: 0) VMH 1528
0502	Liu Yang Meets January 19, 2016 - March 4, 2016 TuTh 5:00pm - 6:50pm	Seats (Total: 0) VMH 1528
0503	Liu Yang Meets January 19, 2016 - March 4, 2016 TuTh 10:00am - 11:50am	Seats (Total: 0) VMH 1528
BA01	Ryan Guttridge Meets January 19, 2016 - March 4, 2016 W 6:25pm - 10:00pm	Seats (Total: 40) BA 102
DC01	Maria Bustamante Meets January 14, 2016 - March 4, 2016 M 6:25pm - 10:00pm <i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	Seats (Total: 40) DC C1

DC06	Maria Bustamante	Seats (Total: 60)
	Meets January 30, 2016 - March 19, 2016	
	Sa 8:30am - 1:00pm	DC C1
	Class time/details on ELMs	ONLINE
	<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>	

BUFN751

Financial Strategy For Corporations

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

An advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.

0101	Michael Faulkender	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 10:00am - 11:50am	VMH 1505
0201	Michael Faulkender	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 2:00pm - 3:50pm	VMH 1520

BUFN752

Financial Restructuring

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN716 or BUFN752. Formerly: BUFN716.

Focuses on identifying ways to increase firm value through corporate restructuring. Specific topics include: mergers and tender offers, spin-offs, carve-outs, divestitures, takeover defense strategies, leveraged buy-outs, and international acquisitions. Additionally, the theory, practice and empirical evidence related to each of these topics will be covered. Emphasis will be placed on valuation analysis and strategic considerations.

0501	Vojislav Maksimovic	Seats (Total: 54)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 2:00pm - 3:50pm	VMH 1528
	<i>For Master of Finance students only.</i>	

0502	Vojislav Maksimovic	Seats (Total: 54)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 12:00pm - 1:50pm	VMH 1528
	<i>For Master of Finance students only.</i>	

BUFN753 Corporate Governance and Performance

Credits: 2 Grading Method: Regular,
Audit

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Deals with corporate governance and its impact on shareholder value. Divergence of interests between corporate insiders and providers of funds leads to agency problems which can impair corporate performance and shareholder value. Various instruments of corporate governance - internal as well as external mechanisms - that can help align managerial incentives with those of outside investors, and hence help restore shareholder value will be studied.

0501	Andrew Sherman	Seats (Total: 52)
	Meets March 21, 2016 - May 6, 2016	
	M 6:25pm - 10:00pm	VMH 1303

BUFN755 Entrepreneurial Finance and Private Equity

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI647 or BUFN755. Formerly: BUSI647.

An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.

0101	Francesco D'Acunto	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 8:00am - 9:50am	VMH 1505
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

0501	Francesco D'Acunto	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 7:00pm - 8:50pm	VMH 1336
	<i>For Master of Finance students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
DC01	Francesco D'Acunto	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	Tu 6:25pm - 10:00pm	DC C1

BUFN758B Special Topics in Finance; New Market Growth Fund

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0101	Mark Grovic	Seats (Total: 15)
	Meets January 19, 2016 - May 6, 2016	
	Tu 2:00pm - 3:50pm	VMH 2505

BUFN758F Special Topics in Finance; Experiential Learning Project

Credits: 1-2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

Contact department for information to register for this course.

BUFN758V Special Topics in Finance; Advanced Equity Modeling

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	F 9:00am - 12:35pm	VMH 1528

BUFN758W Special Topics in Finance; Applied Equity Modeling

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in finance.

0501	Ryan Guttridge	Seats (Total: 35)
	Meets March 21, 2016 - May 6, 2016	
	MW 4:00pm - 5:50pm	VMH 1518

BUFN759 Independent Study in Finance

(Perm req) Credits: 1-6 Grading Method: Regular

Independent study for Masters students in finance.

Contact department for information to register for this course.

BUFN760 Applied Equity Analysis

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN702 or BUFN760. Formerly: BUFN702.

Students will learn to analyze equity securities using the basic EIC (Economy/Industry/Company) framework used in the financial industry, paying special attention to financial statement analysis. Students also will learn the primary valuation techniques used to estimate market values for equity securities.

0101	Sarah Kroncke	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 8:00am - 9:50am	VMH 1505
0501	Sarah Kroncke	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 8:00am - 9:50am	VMH 1528
	<i>For Master of Finance students only.</i>	
0502	Sarah Kroncke	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 12:00pm - 1:50pm	VMH 1511

BUFN761 Derivative Securities

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN726 or BUFN761. Formerly: BUFN726.

Standard types of derivatives contracts are presented, and illustrated as to how they are used in practice. The theory of pricing these contracts is then presented in detail. The use of static and dynamic replication strategies, and the concept of no-arbitrage strategies is illustrated in numerous ways. Standard valuation techniques are covered, and standard formulas are presented. The theory is then applied to develop specific pricing and hedging strategies for various types of derivatives on different underlying assets. The management of the exposure of various risks is covered in detail as well.

0501	Julien Cujean	Seats (Total: 0)
	Meets January 14, 2016 - March 4, 2016	
	MW 8:00am - 9:50am	VMH 1520
	<i>For Master of Finance students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0502	Julien Cujean	Seats (Total: 0)
	Meets January 14, 2016 - March 4, 2016	
	MW 10:00am - 11:50am	VMH 1520
	<i>For Master of Finance students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0503	Julien Cujean	Seats (Total: 0)
	Meets January 14, 2016 - March 4, 2016	
	MW 12:00pm - 1:50pm	VMH 1520
	<i>For Master of Finance students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
DC01	Julien Cujean	Seats (Total: 40)
	Meets January 19, 2016 - March 4, 2016	
	Th 6:25pm - 10:00pm	DC C2

BUFN762

Fixed Income Analysis

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN731 or BUFN762. Formerly: BUFN731.

Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.

0501	Haluk Unal	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 10:00am - 11:50am	VMH 1528
0502	Mark Taranto	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 12:00pm - 1:50pm	VMH 1528

BUFN763

Portfolio Management

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN700 or BUFN763. Formerly: BUFN700.

Provides training that is important in understanding the investment process - the buy side of the financial world. Specifically, the objective is to provide graduate-level instruction in the following topics, both in theory and in using financial markets data to test the basic theory and practice of portfolio choice and equilibrium pricing models and their implications for efficient portfolios.

0501	Mark Loewenstein	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 2:00pm - 3:50pm	VMH 1511
	<i>For Master of Finance students only.</i>	

BUFN766

Financial Engineering

Credits: 2 Grading Method: Regular

Prerequisite: BUFN740. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN735 or BUFN766. Formerly: BUFN735.

Develop Excel and Visual Basic (VBA) models to solve problems related to portfolio management, options valuation, fixed income securities, interest rate processes, and risk management. This course thus bridges theory with the design of algorithms and models that can be directly applied in practice.

DC01	Mark Taranto	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	Tu 6:25pm - 10:00pm	DC C2

BUFN772

Bank Management

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUFN722 or BUFN772. Formerly: BUFN722.

Analyze and discuss readings in bank management, with primary focus on the measurement and management of risk, including credit, market, and interest rate risk. Look at the management of liquid reserves. Examine the special nature of financial institutions, incorporating their functions, policies, services, and regulation. Study the evolving nature of the financial services industry, by reading the financial press and by having outside practitioner speakers. Focus is on U.S. banks.

0501	Clifford Rossi	Seats (Total: 35)
	Meets January 14, 2016 - March 4, 2016	
	MW 2:00pm - 3:50pm	VMH 1518
	<i>For Master of Finance students only. First meeting will be Thursday 1/1 to make up for MLK Holiday.</i>	
DC06	Elinda Kiss	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 2:00pm - 6:30pm	DC C4
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended.</i>	
GS01	Haluk Unal	Seats (Total: 40)
	Meets January 14, 2016 - March 4, 2016	
	M 6:25pm - 10:00pm	BLD2 3032
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

BUFN773

Institutional Asset Management

Credits: 2 Grading Method: Regular

Prerequisite: BUSI640. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Examines how money is managed by organizations such as university endowments, pension funds, mutual funds, hedge funds, and private equity funds. Involves a mixture of finance and economics and emphasizes the incentives professional money managers face within the context of the organizational structure in which they operate. Particular attention is paid to compensation structures and monitoring mechanisms.

0501	Albert Kyle	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 4:00pm - 5:50pm	VMH 1511
	<i>For Master of Finance students only.</i>	
0502	Albert Kyle	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 12:00pm - 1:50pm	VMH 1520
	<i>For Master of Finance students only.</i>	
DC06	Albert Kyle	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 1:40pm - 5:50pm	DC C5
	<i>Meets 3/26, 4/2, 4/9, 4/23, 4/30, 5/7, Final 5/14.</i>	

BULM

Logistics, Business, and Public Policy

Spring 2016

BULM724

Negotiations in Supply Chain Management

(Perm req)

Credits: 2

Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

This high experiential course will improve students' negotiation skills and capacity to acquire and effectively use power. By using a variety of assessment tools, feedback sources, skill-building exercises, and exercise debriefings, the class will increase students' negotiating self-confidence and improve their capacity to achieve win-win solutions to individual, team, and organizational problems. The course is designed to enhance students negotiating self confidence and improve students analytical skills, interpersonal skills, creativity (e.g., identifying creative solutions to conflict), and persuasive abilities.

0501	Rellie Rozin	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 2:00pm - 3:50pm	VMH 1206
	<i>For MS in Supply Chain students only.</i>	

BULM733**Global Trade Logistics**

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT773 or BULM733. Formerly: BMGT773.

Acquaints students with managerial issues in international logistics and transportation, and provides students with an understanding of issues related to import/export management and the global marketplace.

BA06	Matthew Arnold	Seats (Total: 40)
Meets February 6, 2016 - March 5, 2016		
	Sa 8:30am - 6:00pm	BA 103
<i>Meets 2/6, 2/20, 3/5.</i>		

BULM734**Assessing and Managing Supply Chain Risks**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Supply chain managers are facing an increasingly volatile operating environment, with constant danger of trading community disruption from business, social and environmental risks. Students are provided with a working knowledge of both the core techniques of supply chain risk assessment and mitigation; as well as best practices in establishing formal corporate supply chain risk management programs. A semester-long X-Treme Supply Chain Simulation will enable students to gain hands-on experience in navigating a computer company through a complex and risky four quarters of global business operations.

0501	Sandor Boyson	Seats (Total: 0)
Meets March 21, 2016 - May 6, 2016		
	MW 7:00pm - 9:45pm	VMH 1333
<i>For MS in Supply Chain students only.</i>		

BULM758F**Special Topics in Logistics, Business and Public Policy; Sustainability: Economics & Strategy**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0101	Rachelle Sampson	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 4:00pm - 5:50pm	VMH 1505

BULM758J Special Topics in Logistics, Business and Public Policy; Project Management

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

0501	Barnet Corwin	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 5:00pm - 6:50pm	VMH 1330
	<i>For MS in Supply Chain Management students only.</i>	

BULM758M Special Topics in Logistics, Business and Public Policy; Emerging Economies, Government Politics, and International Trade

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in logistics, business and public policy.

DC06	Jahangir Boroumand	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 8:30am - 1:00pm	DC C1
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. This course section meets in a blended format.</i>	

BULM759 Independent Study in Logistics Management

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Logistics Management.

Contact department for information to register for this course.

BUMK Marketing Spring 2016

BUMK701 Marketing Research Methods

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650 and BUSI630. Credit only granted for: BMGT752 or BUMK701. Formerly: BMGT752.

The process of acquiring, classifying and interpreting primary and secondary marketing data needed for intelligent, profitable marketing decisions. Evaluation of the appropriateness of alternative methodologies, such as the inductive, deductive, survey, observational, and experimental. Recent developments in the systematic recording and use of internal and external data needed for marketing decisions.

0101	Tao Chen	Seats (Total: 35)
	Meets January 14, 2016 - March 4, 2016	
	MW 4:00pm - 5:50pm	VMH 1520
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
BA01	Joydeep Srivastava	Seats (Total: 40)
	Meets March 21, 2016 - May 6, 2016	
	Tu 6:25pm - 10:00pm	BA 103
DC06	Tao Chen	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 2:00pm - 6:30pm	DC C1
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended.</i>	

BUMK715

Consumer Behavior

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT754 or BUMK715. Formerly: BMGT754.

Analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework is a buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats. Focus is consumer behavior; however, principles can also be applied to the decision-making of business.

Non-majors should review their registration eligibility in the statement preceding the BUMK courses.

0101	Rosellina Ferraro	Seats (Total: 55)
	Meets March 21, 2016 - May 6, 2016	
	MW 2:00pm - 3:50pm	VMH 1505

BUMK716

Brand Management

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Brand names are valuable assets for firms. Effective brand management is critical to maintaining the long-term profitability of products and services. Topics include understanding brands from the customer's perspective, building brand equity, measuring brand equity, leveraging brand equity, managing brand portfolios and managing brands over time.

0101	Richard Newman	Seats (Total: 35)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 8:00am - 9:50am	VMH 1518

BUMK757 Marketing Strategy

Credits: 2 Grading Method: Regular

Prerequisite: BUSI650. Credit only granted for: BMGT757 or BUMK757. Formerly: BMGT757.

A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.

Non-majors should review their registration eligibility in the statement preceding the BUMK courses.

DC06	Diane Whitney	Seats (Total: 60)
	Meets January 30, 2016 - March 19, 2016	
	Sa 1:40pm - 5:50pm	DC C2
	<i>Meets 1/30, 2/6, 2/13, 2/27, 3/5, 3/12, Final 3/19.</i>	

BUMK758A Special Topics in Marketing; Market Forecasting

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0101	Wendy Moe	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 10:00am - 11:50am	VMH 1528
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

0501	Wendy Moe	Seats (Total: 0)
Meets January 14, 2016 - March 4, 2016		
MW 2:00pm - 3:50pm	VMH 1511	
<i>For MS in Marketing Analytics students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

BUMK758H Special Topics in Marketing; Business Ethics II & Policies

(Perm req)

Credits: 1 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Wendy Moe	Seats (Total: 0)
Meets March 21, 2016 - May 6, 2016		
MW 2:00pm - 3:50pm		VMH 1511
<i>For MS in Marketing Analytics students only.</i>		

BUMK758J Special Topics in Marketing; Pricing Strategies for Sustainable Competitive Advantage

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

BA01	Tao Chen	Seats (Total: 40)
Meets March 21, 2016 - May 6, 2016		
Th 6:25pm - 10:00pm	BA 103	
GS01	Tao Chen	Seats (Total: 40)
Meets January 19, 2016 - March 4, 2016		
Tu 6:25pm - 10:00pm	BLD2 2052	

BUMK758L Special Topics in Marketing; Marketing Research and Analysis

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Joydeep Srivastava	Seats (Total: 0)
Meets January 19, 2016 - May 6, 2016		
TuTh 2:00pm - 3:15pm		VMH 1520
<i>For MS in Marketing Analytics students only.</i>		

BUMK758M Special Topics in Marketing; Retail Analytics

(Perm req)

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Jie Zhang	Seats (Total: 0)
Meets March 21, 2016 - May 6, 2016		
M 6:25pm - 10:00pm	VMH 1412	
<i>For MS in Marketing Analytics students only.</i>		

BUMK758N Special Topics in Marketing; Web Analytics

(Perm req)

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Michael Trusov	Seats (Total: 0)
Meets March 21, 2016 - May 6, 2016		
W 6:25pm - 10:00pm	VMH 1412	
<i>For MS in Marketing Analytics students only.</i>		

BUMK758O Special Topics in Marketing; Social Media and Internet Marketing

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0101	Jeremy Brown	Seats (Total: 35)
Meets January 14, 2016 - March 4, 2016		
MW 8:00am - 9:50am	VMH 1528	
<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

BUMK758P Special Topics in Marketing; Innovation and Product Development

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0101	Yogesh Joshi	Seats (Total: 60)
Meets March 21, 2016 - May 6, 2016		
TuTh 2:00pm - 3:50pm	VMH 1505	

DC01	Cynthia Gilmer	Seats (Total: 50)
Meets January 19, 2016 - March 4, 2016		
W 6:25pm - 10:00pm	DC C2	

BUMK758Q Special Topics in Marketing; Action Learning Project

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Pallassana Kannan	Seats (Total: 0)
Meets January 14, 2016 - March 4, 2016		
MW 12:00pm - 1:50pm		VMH 2505
<i>For MS in Marketing Analytics students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>		

BUMK758W Special Topics in Marketing; Data Science

(Perm req)

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in marketing.

0501	Liye Ma, William Rand	Seats (Total: 0)
Meets January 19, 2016 - May 6, 2016		
TuTh 3:30pm - 4:45pm		VMH 1520
<i>For MS in Marketing Analytics students only.</i>		

BUMK759 Independent Study in Marketing

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Marketing.

Contact department for information to register for this course.

BUMO Management and Organization Spring 2016

BUM0714 Competitive and Collaborative Negotiation

Credits: 2 Grading Method: Regular

Corequisite: BUM0715. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUM0714 or BMGT764. Formerly: BMGT764.

Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.

Non-majors should review their registration eligibility in the statement preceding the BUMO courses.

BA01	Mary Taylor Meets January 19, 2016 - March 4, 2016 Tu 6:25pm - 10:00pm	Seats (Total: 40) BA 103
GS01	Rellie Rozin Meets March 21, 2016 - May 6, 2016 M 6:25pm - 10:00pm	Seats (Total: 40) BLD2 2032

BUM0720 Understanding Organizational Change

Credits: 2 Grading Method: Regular

Prerequisite: BUSI664 or BUSI662. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Develops the fundamental change knowledge and skills of MBA students who plan to work with organizations as change agents, whether internally as managerial employees or externally as outside consultants. Draws on literatures from organizational behavior, human resource management and strategic management to identify models as prescriptions of change.

0101	Myeong-Gu Seo Meets January 19, 2016 - March 4, 2016 TuTh 10:00am - 11:50am	Seats (Total: 35) VMH 1518
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BUM0751 Implementing Strategy: Organizing to Compete

Credits: 2 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in BUSI690. And must have completed MBA core requirements; or permission of BMGT-Robert H. Smith School of Business.

Organizational dynamics of competitive advantage. Impact of alternative organizational structures, planning and control systems, human resource management practices, and executive leadership styles on the implementation of archetypically different strategies.

0101	Christine Beckman Meets January 19, 2016 - March 4, 2016 TuTh 2:00pm - 3:50pm	Seats (Total: 35) VMH 1518
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DC01	Christine Beckman	Seats (Total: 40)
	Meets March 21, 2016 - May 6, 2016	
	M 6:25pm - 10:00pm	DC C1
DC06	Christine Beckman	Seats (Total: 60)
	Meets January 30, 2016 - March 19, 2016	
	Sa 2:00pm - 6:30pm	DC C1
	Class time/details on ELMs	ONLINE
	<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>	

BUM0753 Emerging Business Formation

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Business formation issues, legal obligations that affect entrepreneuria activities, the spectrum of financing methods available to emerging businesses, creating management and organization and a practical application of the tools through practical projects.

GS01	Jonathan Aberman	Seats (Total: 50)
	Meets January 19, 2016 - March 4, 2016	
	W 6:25pm - 10:00pm	BLD2 2032

BUM0758D Special Topics in Management and Organization; Social Entrepreneurship

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC06	James Sanders	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 2:00pm - 6:30pm	DC C2
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended.</i>	

BUM0758I Special Topics in Management and Organization; Innovation and Entrepreneurship

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

0101	Joseph Bailey	Seats (Total: 40)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 4:00pm - 5:50pm	VMH 1206

BUMO758L Special Topics in Management and Organization; Leadership Development

Credits: 4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in management and organization.

DC01	Hui Liao	Seats (Total: 50)
	Meets January 14, 2016 - May 6, 2016	
	M 6:25pm - 10:00pm	DC C2
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

BUMO759 Independent Study in Management and Organization

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in management and organization.

Contact department for information to register for this course.

BUMO761 Creativity for Business Leaders and Entrepreneurs

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI661 or BUMO761. Formerly: BUSI661.

Examines the concept of creativity as it applies in today's and tomorrow's complex business environment. An overview of the cognitive foundations of creativity, examines many of the preconceived notions about creativity in business and discusses multiple ways in which creativity can help business leaders and entrepreneurs to succeed. Topics include creativity techniques for groups and individuals, creativity as a foundation to recognize business opportunities and develop innovative products and services, selecting ideas and making them stick, mental and organizational obstacles to creativity as well as an overview of electronic tools to increase creative capability.

BA01	Oliver Schlake	Seats (Total: 40)
	Meets January 19, 2016 - March 4, 2016	
	Th 6:25pm - 10:00pm	BA 103

DC01	Oliver Schlake	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	Th 6:25pm - 10:00pm	DC C2

BUM0794

Essentials of Negotiation

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

This highly experiential course will improve students' negotiation skills and capacity to acquire and effectively use bargaining power. By using a variety of assessment tools, feedback sources, skill-building exercises, and exercise debriefings, the class will increase students' negotiating self-confidence and improve their capacity to claim value and achieve win-win solutions to individual, team, and organizational problems. The course is designed to enhance students' negotiating self-confidence and improve students' analytical and decision-making skills (e.g., understanding bargaining zones, knowing when an agreement can be made and when to walk away; learning how to prepare for negotiations), interpersonal skills, creativity (e.g., identifying creative solutions to conflict), and persuasive abilities.

0501	Rellie Rozin	Seats (Total: 0)
	Meets January 14, 2016 - March 4, 2016	
	MW 2:00pm - 3:50pm	VMH 1505
	<i>For MS in Accounting students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0502	Rellie Rozin	Seats (Total: 60)
	Meets January 14, 2016 - March 4, 2016	
	MW 12:00pm - 1:50pm	VMH 1528
	<i>For MS in Accounting students only. First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0503	Gosia Langa	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	W 6:25pm - 10:00pm	VMH 1333
	<i>For MS in Accounting students only.</i>	

BUM0796

Leadership and Human Resource Management for Accountants and Auditors

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program.

Develops the concepts, frameworks, and skills that are important to be effective leaders and to successfully manage human resources. Topics for discussion include: Creating a motivating and empowering environment; leadership attributes, power and effective influence; building effective decision-making; strategic management of human resources; specification of the skills and competencies requisite for job success; recruiting and selecting employees to fit the job and the organization; measuring, appraising and improving performance. All of the topics selected for discussion are critical ones that every professional needs to know, regardless of functional area (not just HR professionals), and will help students become more effective consultants, managers and leaders.

0501	Hui Liao	Seats (Total: 40)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 4:00pm - 6:45pm	VMH 1528
	<i>For MS in Accounting students only.</i>	
0502	Hui Liao	Seats (Total: 40)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 7:00pm - 9:45pm	VMH 1528

BUSI Part-Time MBA Program Spring 2016

BUSI611

Managerial Accounting

Credits: 2 Grading Method: Regular

Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Use of accounting data in corporate planning and control. Cost-volume- profit analysis, budgeting, pricing decisions and cost data, transfer pricing, activity-based management, performance measures, and standard costing.

0101	Michael Kimbrough	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 8:00am - 9:50am	VMH 1511
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
0201	Michael Kimbrough	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	MW 10:00am - 11:50am	VMH 1511
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	

GS01	Shijun Cheng	Seats (Total: 0)
	Meets January 26, 2016 - March 1, 2016	
	Tu 6:30pm - 10:00pm	BLD2 2032
	Class time/details on ELMs	ONLINE
	<i>Meets 1/26, 2/2, 2/9,2/16, 2/23, Final 3/1. Blended.</i>	

BUSI621

Strategic and Transformational IT

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI620 or BUSI621.

Introduces students to the key issues in managing information technolog (IT) and provides an overview of how major IT applications in today's firms support strategic, opertaional, and tactical decisions. Topics include: synchroizing IT and business strategy; the transformational impacts of IT; evaluating and coping with new technologies; governing, managing, and organizing the IT function including outsourcing/offshoring considerations; assessing the business value of IT and justifying IT projects; and managing IT applications in functional areas to support strategy and business process.

0101	Henry Lucas	Seats (Total: 35)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 10:00am - 11:50am	VMH 1505
0501	Anand Gopal	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 4:00pm - 5:50pm	VMH 1511
	<i>For MS in Information Systems students only.</i>	
0502	Ritu Agarwal	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 2:00pm - 3:50pm	VMH 1528
	<i>For MS in Information Systems students only.</i>	
BA01	Sunil Mithas	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	M 6:25pm - 10:00pm	BA 103
DC01	Sunil Mithas	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	W 6:25pm - 10:00pm	DC C3

DC06	Sunil Mithas	Seats (Total: 0)
	Meets March 26, 2016 - May 14, 2016	
	Sa 2:00pm - 6:30pm	DC C3
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended.</i>	
GS01	Sunil Mithas	Seats (Total: 0)
	Meets March 8, 2016 - May 17, 2016	
	TuTh 6:30pm - 10:00pm	Location: TBA
	Class time/details on ELMs	ONLINE
	<i>Meets 3/8, 4/12, 4/19, 4/28, 5/5, Final 5/17. Blended.</i>	

BUSI622

Managing Digital Business Markets

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

0101	Guodong Gao	Seats (Total: 45)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 8:00am - 9:50am	VMH 1511
0201	Guodong Gao	Seats (Total: 49)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 10:00am - 11:50am	VMH 1511
BA01	Il-Horn Hann	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	M 6:25pm - 9:30pm	BA 102
	Class time/details on ELMs	ONLINE
	<i>This section of BUSI622 will meet in a combination of face-to-face classroom sessions and asynchronous online sessions. Students are required to have a PC or MAC and broadband connection to enroll in the course.</i>	

DC01	Il-Horn Hann	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	W 6:25pm - 10:00pm	DC C2
	Class time/details on ELMs	ONLINE
	<i>This section of BUSI622 will meet in a combination of face-to-face classroom sessions and asynchronous online sessions. Students are required to have a PC or MAC and broadband connection to enroll in the course.</i>	

BUSI630

(Perm req)

Data, Models and Decisions

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

BA01	Tunay Tunca	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	W 6:25pm - 10:00pm	BA 104
DC01	Tunay Tunca	Seats (Total: 0)
	Meets January 14, 2016 - March 4, 2016	
	M 6:25pm - 10:00pm	DC C3
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
DC02	Tunay Tunca	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	Tu 6:25pm - 10:00pm	DC C3
DC06	Sean Barnes	Seats (Total: 0)
	Meets January 30, 2016 - March 19, 2016	
	Sa 2:00pm - 6:30pm	DC C3
	Class time/details on ELMs	ONLINE
	<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>	

GS01	Arnold Greenland	Seats (Total: 0)
	Meets January 28, 2016 - April 14, 2016	
	Th 6:30pm - 10:00pm	BLD2 2032
	Class time/details on ELMs	ONLINE
	<i>Meets 1/28, 2/11, 2/25, 3/10, 3/31, Final 4/14. Blended.</i>	

BUSI634

Operations Management

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.

0101	Zhi-Long Chen	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 8:00am - 9:50am	VMH 1511
0201	Zhi-Long Chen	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	MW 10:00am - 11:50am	VMH 1511
GS01	Zhi-Long Chen	Seats (Total: 0)
	Meets March 22, 2016 - May 10, 2016	
	Tu 6:30pm - 10:00pm	BLD2 2032
	Class time/details on ELMs	ONLINE
	<i>Meets 3/22, 3/29, 4/5, 4/26, 5/3, Final 5/10. Blended.</i>	

BUSI640

Financial Management

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.

BA01	Michael Faulkender Meets March 21, 2016 - May 6, 2016 W 6:25pm - 10:00pm	Seats (Total: 0) BA 104
DC01	Haluk Unal Meets March 21, 2016 - May 6, 2016 M 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC02	Haluk Unal Meets March 21, 2016 - May 6, 2016 Tu 6:25pm - 10:00pm	Seats (Total: 0) DC C3
DC06	Bharat Jain Meets March 26, 2016 - May 14, 2016 Sa 8:30am - 1:00pm Class time/details on ELMs <i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended.</i>	Seats (Total: 0) DC C3 ONLINE
GS01	Bharat Jain Meets February 4, 2016 - April 21, 2016 Th 6:30pm - 10:00pm Class time/details on ELMs <i>Meets 2/4, 2/18, 3/3, 3/24, 4/8, Final 4/21. Blended.</i>	Seats (Total: 0) BLD2 2032 ONLINE

BUSI650

Marketing Management

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.

Non-majors should review their registration eligibility in the statement preceding the BUSI courses.

BA01	Joydeep Srivastava Meets January 14, 2016 - March 4, 2016 M 6:25pm - 10:00pm <i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	Seats (Total: 0) BA 104
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DC01	David Godes	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	W 6:25pm - 10:00pm	DC C3
DC02	David Godes	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	Th 6:25pm - 10:00pm	DC C3
DC06	Pallassana Kannan	Seats (Total: 0)
	Meets January 30, 2016 - March 19, 2016	
	Sa 8:30am - 1:00pm	DC C3
	Class time/details on ELMs	ONLINE
	<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>	

BUSI672
Global Supply Chain Management

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.

0101	Thomas Corsi	Seats (Total: 45)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 4:00pm - 5:50pm	VMH 1505

BUSI673
International Economics for Managers

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)).

Focuses on understanding critical aspects of the global business environment that influence firm decisions and behavior. Globalization is present in market competition, capital markets, and managerial talent as evidenced by free trade areas and economic unions forming, the volatility in global financial markets, and the continued rise of transnational firms. With globalization, the challenge for firms is to acknowledge, understand and act when appropriate - to act by sourcing, lobbying, and relocating value chain activities internationally.

0101	Wilbur Chung	Seats (Total: 35)
	Meets January 14, 2016 - March 4, 2016	
	MW 4:00pm - 5:50pm	VMH 1511
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
DC01	Wilbur Chung	Seats (Total: 35)
	Meets January 19, 2016 - March 4, 2016	
	Tu 6:25pm - 10:00pm	DC C2

BUSI758C Special Topics in Business; China Ad-Venture

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758D Special Topics in Business; Digital Strategies for Businesses: Google Analytics

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758F Special Topics in Business; Experiential Learning Project

Credits: 1-2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758G Special Topics in Business; Global Consulting Practicum

Credits: 2-4 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758I Special Topics in Business; Technology and Innovation Leadership

(Perm req)

Credits: 1-3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

For MBA students only.

Contact department for information to register for this course.

BUSI758J Special Topics in Business; SAP Software & Solutions / Enterprise Resource Planning

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

0501	Hongyi Zhang	Seats (Total: 24)
Meets January 19, 2016 - March 4, 2016		
Tu 8:00am - 11:45am		VMH 3522
<i>For MS in Supply Chain Management students only.</i>		

0502	Hongyi Zhang	Seats (Total: 24)
Meets January 19, 2016 - March 4, 2016		
Th 8:00am - 11:45am		VMH 3522
<i>For MS in Supply Chain Management students only.</i>		

BUSI758P Special Topics in Business; Current Issues in Federal Acquisition

Credits: 3 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Also offered as ENSE698F and PUAF689F. Credit granted for BUSI758P, ENSE698F, and PUAF689F.

0101	Jacques Gansler	Seats (Total: 20)
M 4:15pm - 6:45pm		VMH 1203

BUSI758Q Special Topics in Business; MBA Consulting Practicum

(Perm req)

Credits: 4 Grading Method: Regular

*Selected advanced topics in the various fields of graduate study in business.***Contact department for information to register for this course.**

BUSI758X Special Topics in Business; Business Systems Innovation Practicum

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

For MBA students only.

Contact department for information to register for this course.

BUSI758Y Special Topics in Business; DC I-Corps: Tech Venture Builder

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI759 Independent Study in Business

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSI761 The Environment of International Business

Credits: 2 Grading Method: Regular

Credit only granted for: BMGT794 or BUSI761. Formerly: BMGT794.

The international business environment as it affects company policy and procedures. In-depth analysis and comprehensive case studies of the business functions undertaken in international operations.

DC06	Peter Morici	Seats (Total: 60)
	Meets January 23, 2016 - February 20, 2016	
	SaSu 8:30am - 5:50pm	DC C1
	<i>Meets 1/23, 1/24, 2/20.</i>	
GS06	Peter Morici	Seats (Total: 40)
	Meets April 2, 2016 - April 30, 2016	
	SaSu 8:30am - 6:00pm	BLD2 2032
	<i>Meets 4/2, 4/3, 4/30.</i>	

BUSI764 Business Law for Managers

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT793 or BUSI764. Formerly: BMGT793.

Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.

0501	Ronald Meisburg	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 7:00pm - 8:50pm	VMH 1333
	<i>For MS in Accounting students only.</i>	
0502	William McClenahan	Seats (Total: 0)
	Meets January 19, 2016 - March 4, 2016	
	TuTh 7:00pm - 8:50pm	VMH 1528
	<i>For MS in Accounting students only.</i>	
BA01	T Anenson	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	W 6:25pm - 10:00pm	BA 103
DC06	William McClenahan	Seats (Total: 60)
	Meets January 30, 2016 - March 19, 2016	
	Sa 8:30am - 1:00pm	DC C4
	Class time/details on ELMs	ONLINE
	<i>Meets 1/30, 2/13, 2/27, 3/12, Final 3/19. Blended.</i>	
GS01	William McClenahan	Seats (Total: 40)
	Meets March 21, 2016 - May 6, 2016	
	Tu 6:25pm - 10:00pm	BLD2 2052

BUSI771

New Venture Financing

Credits: 2

Grading Method: Regular,
Audit

Prerequisite: BUSI640; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT740 or BUSI771. Formerly: BMGT740.

Development of skills for financing new ventures (both small and potentially large). Exploration of various funding sources. Criteria used in evaluation and decision process, including commercial banks, venture capital companies, small business investment companies, underwriters, private placement-financial consultants, mortgage bankers, and small business innovative research grants (U.S. Government).

DC06	Jonathan Aberman	Seats (Total: 60)
	Meets March 26, 2016 - May 14, 2016	
	Sa 8:30am - 1:00pm	DC C2
	Class time/details on ELMs	ONLINE
	<i>Meets 3/26, 4/9, 4/23, 5/7, Final 5/14. Blended</i>	

BUSI785

Project Management in Dynamic Environments

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

0501	Wedad Elmaghraby	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 4:00pm - 5:50pm	VMH 1511
	<i>For MS in Information Systems students only.</i>	
0502	Wedad Elmaghraby	Seats (Total: 0)
	Meets March 21, 2016 - May 6, 2016	
	TuTh 2:00pm - 3:50pm	VMH 1511
	<i>For MS in Information Systems students only.</i>	
BA01	Barnet Corwin	Seats (Total: 50)
	Meets January 14, 2016 - March 4, 2016	
	M 6:25pm - 10:00pm	BA 102
	<i>First meeting will be Thursday 1/14 to make up for MLK Holiday.</i>	
DC01	Barnet Corwin	Seats (Total: 50)
	Meets March 21, 2016 - May 6, 2016	
	M 6:25pm - 10:00pm	DC C4

BUSI798B

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798C

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798E

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798G

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798L

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798M

Credits: 3

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI798Y Global Business Experience; Doing Business in Japan and Korea

Credits: 3 Grading Method: Regular

Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.

Contact department for information to register for this course.

BUSI799 Masters Thesis Research

(Perm req) Credits: 1-6 Grading Method: Regular

For Smith School MS Students only.

Contact department for information to register for this course.

CBMG Cell Biology & Molecular Genetics Spring 2016

CBMG688C Special Topics in Cell Biology and Molecular Genetics; Research Experiences

Credits: 2 Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Kevin McIver	Seats (Total: 40)
Contact instructor or department for details.		

CBMG688F Special Topics in Cell Biology and Molecular Genetics; Gene Expression

Credits: 2 Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Wade Winkler	Seats (Total: 35)
Meets January 25, 2016 - March 18, 2016		
TuTh 4:00pm - 6:00pm		MCB 1207

CBMG688I Special Topics in Cell Biology and Molecular Genetics; Genetic Analysis

(Perm req)

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 30)
	Meets March 19, 2016 - May 10, 2016	
	TuTh 4:00pm - 6:00pm	MCB 1207

CBMG688L

Special Topics in Cell Biology and Molecular Genetics; Microbial Pathogenesis

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Volker Briken, Kevin Mclver	Seats (Total: 20)
	Meets January 25, 2016 - March 18, 2016	
	MW 8:00am - 10:00am	MCB 1123

CBMG688O

Special Topics in Cell Biology and Molecular Genetics; The Role of Thoroughly Conscious Ignorance on the Advancement of Science

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Jose Feijo	Seats (Total: 15)
	Meets January 25, 2016 - March 18, 2016	
	MW 4:00pm - 5:50pm	MCB 2119

CBMG688X

Special Topics in Cell Biology and Molecular Genetics; Virology Program

Credits: 2

Grading Method: Regular,
Audit

Presentation and discussion of fundamental problems and special subject in the topics of Cell Biology and Molecular Genetics.

0101	Anne Simon	Seats (Total: 20)
	F 3:00pm - 5:00pm	HJP 1216

CBMG699 Special Problems in Cell Biology and Molecular Genetics

Credits: 1-3 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG699D Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Bioinformatics and Computation Biology

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	Th 2:00pm - 3:00pm	BRB 1103

CBMG699T Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Genetics of Eukaryotic Model Systems

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	Stephen Mount	Seats (Total: 20)
	F 3:30pm - 6:00pm	PLS 1146

CBMG699W Special Problems in Cell Biology and Molecular Genetics; Immunology

Credits: 3 Grading Method: Regular

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	David Mosser, Kenneth Frauwirth	Seats (Total: 4)	
	MW 12:00pm - 12:50pm	PLS 1140	
	F 2:00pm - 2:50pm	PLS 1111	Discussion

CBMG699X Special Problems in Cell Biology and Molecular Genetics; Host Pathogen Interactions

Credits: 1 Grading Method: Regular, Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	David Mosser	Seats (Total: 20)
	F 9:00am - 10:30am	BRB 3101

CBMG699Y Special Problems in Cell Biology and Molecular Genetics; Plant Cell Biology

Credits: 1 Grading Method: Regular,
Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	Caren Chang	Seats (Total: 20)
	M 12:00pm - 1:00pm	BRB 3101

CBMG699Z Special Problems in Cell Biology and Molecular Genetics; Protein Translation

Credits: 1 Grading Method: Regular,
Audit

Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.

0101	Jonathan Dinman	Seats (Total: 10)
	F 9:30am - 10:30am	MCB 1121

CBMG799 Masters Thesis Research

Credits: 1-6 Grading Method: Regular, Satisfail

Master's Thesis Research in Cell Biology and Molecular Genetics.

Contact department for information to register for this course.

CBMG898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Pre-candidacy Research.

Contact department for information to register for this course.

CBMG899**Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

*Doctoral Dissertation Research.***Contact department for information to register for this course.****CCJS****Criminology and Criminal Justice****Spring 2016****CCJS100****Introduction to Criminal Justice**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

CORE: SB

General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

0101	Justine Madoo, Rebecca Richardson	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	M 9:00am - 9:50am	LEF 1201	Discussion
0102	Rebecca Richardson, Justine Madoo	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	M 10:00am - 10:50am	SQH 2120	Discussion
0103	Justine Madoo, Rebecca Richardson	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	M 12:00pm - 12:50pm	TLF 1103	Discussion
0104	Justine Madoo, Rebecca Richardson	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	M 1:00pm - 1:50pm	SQH 1107	Discussion
0105	Rebecca Richardson, Justine Madoo	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	Tu 9:30am - 10:20am	JMZ 0122	Discussion
0106	Rebecca Richardson, Justine Madoo	Seats (Total: 30)	
	MW 3:00pm - 3:50pm	LEF 2205	
	Tu 11:00am - 11:50am	TWS 1320	Discussion

0107	Rebecca Richardson, Justine Madoo MW 3:00pm - 3:50pm Tu 12:30pm - 1:20pm	Seats (Total: 30) LEF 2205 LEF 1201	Discussion
0108	Justine Madoo, Rebecca Richardson MW 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 30) LEF 2205 TWS 1313	Discussion
0201	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 30) SKN 0200 LEF 1201	Discussion
0202	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 30) SKN 0200 SQH 2120	Discussion
0203	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 30) SKN 0200 KEY 0123	Discussion
0204	Justine Madoo, Rebecca Richardson MW 12:00pm - 12:50pm W 2:00pm - 2:50pm	Seats (Total: 30) SKN 0200 JMZ 0125	Discussion
0205	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm Th 9:30am - 10:20am	Seats (Total: 30) SKN 0200 KEY 0125	Discussion
0206	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm Th 11:00am - 11:50am	Seats (Total: 30) SKN 0200 TYD 1118	Discussion
0207	Rebecca Richardson, Justine Madoo MW 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 30) SKN 0200 LEF 1220	Discussion
0208	Justine Madoo, Rebecca Richardson MW 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 30) SKN 0200 TYD 2110	Discussion

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.

0101	Anastasia Tosouni TuTh 2:00pm - 2:50pm M 10:00am - 10:50am	Seats (Total: 30) LEF 2205 LEF 1201	Discussion
0102	Anastasia Tosouni TuTh 2:00pm - 2:50pm M 1:00pm - 1:50pm	Seats (Total: 30) LEF 2205 LEF 1201	Discussion
0103	Anastasia Tosouni TuTh 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 30) LEF 2205 TYD 0101	Discussion
0104	Anastasia Tosouni TuTh 2:00pm - 2:50pm M 2:00pm - 2:50pm	Seats (Total: 30) LEF 2205 JMZ 0208	Discussion
0105	Anastasia Tosouni TuTh 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 30) LEF 2205 LEF 1201	Discussion
0106	Anastasia Tosouni TuTh 2:00pm - 2:50pm W 12:00pm - 12:50pm	Seats (Total: 30) LEF 2205 TLF 1103	Discussion
0107	Anastasia Tosouni TuTh 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 30) LEF 2205 SQH 1107	Discussion
0108	Anastasia Tosouni TuTh 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 30) LEF 2205 HBK 0115	Discussion
0201	Jacqueline Lee TuTh 12:30pm - 1:20pm M 2:00pm - 2:50pm	Seats (Total: 30) HJP 0226 JMZ 0122	Discussion

0202	Jacqueline Lee TuTh 12:30pm - 1:20pm Tu 11:00am - 11:50am	Seats (Total: 30) HJP 0226 JMZ 0122	Discussion
0203	Jacqueline Lee TuTh 12:30pm - 1:20pm Th 2:00pm - 2:50pm	Seats (Total: 30) HJP 0226 WDS 1130	Discussion
0204	Jacqueline Lee TuTh 12:30pm - 1:20pm W 3:00pm - 3:50pm	Seats (Total: 30) HJP 0226 KEY 0121	Discussion
0205	Jacqueline Lee TuTh 12:30pm - 1:20pm Th 9:30am - 10:20am	Seats (Total: 30) HJP 0226 JMZ 0125	Discussion
0206	Jacqueline Lee TuTh 12:30pm - 1:20pm M 11:00am - 11:50am	Seats (Total: 30) HJP 0226 SQH 2120	Discussion
0207	Jacqueline Lee TuTh 12:30pm - 1:20pm W 2:00pm - 2:50pm	Seats (Total: 30) HJP 0226 JMZ 0103	Discussion
0208	Jacqueline Lee TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 30) HJP 0226 WDS 1130	Discussion

CCJS200

(Perm req)

Statistics for Criminology and Criminal Justice

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSAR

Prerequisite: CCJS100 or CCJS105; and 1 course with a minimum grade of C- from (MATH111, STAT100, MATH220, MATH130, MATH140). Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.

0101	Raymond Paternoster TuTh 12:30pm - 1:45pm Th 3:00pm - 3:50pm	Seats (Total: 30) MMH 1400 LEF 1220	Discussion
0102	Raymond Paternoster TuTh 12:30pm - 1:45pm Th 2:00pm - 2:50pm	Seats (Total: 30) MMH 1400 LEF 1220	Discussion
0103	Raymond Paternoster TuTh 12:30pm - 1:45pm F 12:00pm - 12:50pm	Seats (Total: 30) MMH 1400 SKN 1115	Discussion
0104	Raymond Paternoster TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 30) MMH 1400 LEF 1220	Discussion
0105	Raymond Paternoster TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 30) MMH 1400 TLF 1101	Discussion
0106	Raymond Paternoster TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 30) MMH 1400 KEY 0126	Discussion

CCJS225
Responses to Violence

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP, SCIS

Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weakness of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

0101	Min Xie MW 3:00pm - 4:15pm	Seats (Total: 60) KEY 0106	
0201	Anastasia Tosouni TuTh 3:30pm - 4:45pm	Seats (Total: 80) SKN 0200	

CCJS230
Criminal Law in Action

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100.

Law as one of the methods of social control. Criminal law: its nature, sources and types; theories and historical developments. Behavioral and legal aspects of criminal acts. Classification and analysis of selected criminal offenses.

0101	Christine White	Seats (Total: 100)
	MWF 9:00am - 9:50am	LEF 2205
0201	Russell Hamill	Seats (Total: 100)
	Th 4:00pm - 6:30pm	MMH 1400

CCJS234

Law of Criminal Investigation

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

General principles and theories of criminal procedure. Due process. Arrest, search and seizure. Recent developments. Study and evaluation of evidence and proof.

0101	David Salem	Seats (Total: 100)
	Th 6:00pm - 8:30pm	KEY 0102

CCJS300

Criminological and Criminal Justice Research Methods

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).

Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.

0101	Laure Brooks	Seats (Total: 60)
	MWF 9:00am - 9:50am	TYD 2111
0201	Laure Brooks	Seats (Total: 60)
	MWF 11:00am - 11:50am	TYD 2111
0301	Alan Lehman	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	CCC 1100

0401	Alan Lehman	Seats (Total: 60)
	TuTh 11:00am - 12:15pm	CCC 1100
SG91	Thomas Alexander	Seats (Total: 40)
	Tu 11:00am - 1:30pm	BLD3 4215
	<i>Restricted to CCJS students at Shady Grove.</i>	

CCJS320

Introduction to Criminalistics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS230.

An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.

This class is taught using a "blended learning" format divided equally with presentation of online recorded lectures, case studies, webcasts and readings; and practical examination of criminalistics procedures and evidence identification exercises in the CCJS Crime Laboratory. There are lab fees associated with this course.

BL01	Thomas Mauriello	Seats (Total: 24)
	Class time/details on ELMs	ONLINE
	M 12:00pm - 2:45pm	MMH 2401 Lab
BL02	Thomas Mauriello	Seats (Total: 24)
	Class time/details on ELMs	ONLINE
	M 3:00pm - 5:45pm	MMH 2401 Lab
BL03	Thomas Mauriello	Seats (Total: 24)
	Class time/details on ELMs	ONLINE
	M 6:00pm - 8:45pm	MMH 2401 Lab

CCJS325

Slavery in the Twenty First Century: Combating Human Trafficking

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit SCIS

Credit only granted for: CCJS325 or CCJS498R. Formerly: CCJS498R.

The trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.

0101	Christine White	Seats (Total: 80)
	M 3:00pm - 5:30pm	TYD 2106
SG91	Wendy Stickle	Seats (Total: 40)
	W 9:30am - 12:00pm	BLD3 3206
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS330 Contemporary Criminological Issues

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100 and CCJS105.

Topics may include career criminals, prison overcrowding, prediction, ecological studies of crimes, family and delinquency, entrepreneurship in criminal justice and criminology, and similar criminological problems.

SG91	Rebecca Morse	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BLD1 203
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS332 Major Transitions: From Undergraduate to Professional

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Criminology and Criminal Justice program; and sophomore standing or higher.

This course is designed to assist criminology and criminal justice students explore career opportunities. Topics will include: graduate school, law school, career opportunities in federal, state, local, and public agencies, resume writing, and internships.

0101	Nicole Jackson	Seats (Total: 50)
	W 12:00pm - 12:50pm	TYD 1102

CCJS340 Policing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100; or students who have taken courses with comparable content may contact the department.

Critical issues relating to policing. Topics include police discretion, role of police, use of force, misconduct, police research, administration, personnel, and etc.

0101	Laure Brooks	Seats (Total: 200)
	MWF 10:00am - 10:50am	LEF 2205
0201	David Mitchell	Seats (Total: 50)
	TuTh 2:00pm - 3:15pm	SQH 1120

CCJS345 **Courts and Sentencing**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100.

Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.

0101	Anastasia Tosouni	Seats (Total: 75)
	TuTh 11:00am - 12:15pm	SQH 1120

CCJS346 **Domestic Violence**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100. Credit only granted for: CCJS346 or CCJS498Y. Formerly: CCJS498Y.

A thorough and critical examination of family violence. Topics include the historical background to family violence, methods of studying this serious issue, elder abuse, child abuse, the cultural factors involved in intimate partner violence, violence in same-sex relationships, and the criminal justice response to family violence. Although the course focuses on the American family, illustrations from other cultures are provided.

SG91	Nicole Romeiser	Seats (Total: 40)
	M 11:00am - 1:30pm	BLD3 2225
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS350 **Juvenile Delinquency**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS105. Credit only granted for: CCJS 350 or CCJS 450.

Juvenile delinquency in relation to the general problem of crime; analysis of factors underlying juvenile delinquency; treatment and prevention; organization and social responsibility of law enforcement.

0101	Brian Engelmann, Justine Madoo W 4:00pm - 6:30pm	Seats (Total: 100) SQH 1120
0201	Christine White MWF 10:00am - 10:50am	Seats (Total: 100) BPS 1250
SG91	Robin Shusko Class time/details on ELMs Class time/details on ELMs <i>Limit to CCJS students at Shady Grove. This class will primarily be held online, but will meet in person from 9:30-10:45 (BLD3 3206) on the following dates: January 25, 2016; March 21, 2016; and May 9, 2016.</i>	Seats (Total: 40) ONLINE ONLINE

CCJS352 Drugs and Crime

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS100.

An analysis of the role of criminal justice in the control of drug use and abuse.

0101	Alan Lehman TuTh 3:30pm - 4:45pm	Seats (Total: 75) SQH 1120
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CCJS358B Special Topics in Study Abroad III; Criminology in Scandanavia

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CCJS359 Field Training in Criminology and Corrections

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Prerequisites: CCJS 105 or CRIM 220; and CCJS 350 or CRIM 450; and permission of department. For majors only.

Contact department for information to register for this course.

CCJS360**Victimology**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS105.

Overview of the history and theory of victimology. Analysis of victimization patterns with special emphasis on types of victims and crimes. The interaction between victims of crime and the criminal justice system with respect to the role of the victim and the services offered to the victim.

0101	Cortney Fisher	Seats (Total: 50)
	TuTh 9:30am - 10:45am	TYD 1118

CCJS370**Race, Crime and Criminal Justice**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit , D

General Education: DVUP

Prerequisite: CCJS100; or students who have taken courses with comparable content may contact the department.

Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.

0101	Christine White	Seats (Total: 50)
	W 2:00pm - 4:30pm	TYD 1118
SG91	Thomas Alexander	Seats (Total: 40)
	M 2:00pm - 4:30pm	BLD3 4215
<i>Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		

CCJS386**Experiential Learning**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail

Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.

Contact department for information to register for this course.

CCJS389H Independent Research in Criminology and Criminal Justice

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail, Audit

Independent Research for CCJS Departmental Honors students.

0101	David Maimon	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	SQH 1123

CCJS398 Law Enforcement Field Training

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Prerequisite: junior standing. For majors only.

Contact department for information to register for this course.

CCJS399 Independent Study in Criminology and Criminal Justice

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Integrated reading or research under direction and supervision of a faculty member.

Prerequisite: written consent of faculty under whose direction the study is to be performed, and at least twelve hours of CCJS credits.

Contact department for information to register for this course.

CCJS418E Seminar in Criminology and Criminal Justice; Evidence Based Policing

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

Prerequisite: CCJS100, CCJS340, and CCJS300.

0101	Lawrence Sherman	Seats (Total: 30)
	M 4:00pm - 6:30pm	SQH 2120

CCJS418J Seminar in Criminology and Criminal Justice; Immigration and Crime

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Selected topics of interest in the field of Criminology and Criminal Justice will be covered.

SG91	Alan Drew	Seats (Total: 40)
	W 12:30pm - 3:00pm	BLD3 3206
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS451 Crime and Delinquency Prevention

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300.

Methods and programs in prevention of crime and delinquency.

0101	Anastasia Tosouni	Seats (Total: 50)
	TuTh 9:30am - 10:45am	TWS 0310

CCJS452 Treatment of Criminals and Delinquents

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS 342 or CCJS 452.

Processes and methods used to modify criminal and delinquent behavior.

0101	Kiminori Nakamura	Seats (Total: 50)
	TuTh 11:00am - 12:15pm	TYD 0117
0201	Dawn Daggett	Seats (Total: 50)
	Th 5:00pm - 7:30pm	TYD 2102
SG91	Arthur Wallenstein	Seats (Total: 40)
	M 11:00am - 1:30pm	BLD3 4215
<i>Restricted to CCJS students at Shady Grove.</i>		

CCJS454 Contemporary Criminological Theory

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS300 and CCJS105.

Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.

0101	David Maimon	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	SQH 1117

CCJS461 Psychology of Criminal Behavior

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CCJS105; or students who have taken courses with comparable content may contact the department. And CCJS300.

Biological, environmental, and personality factors which influence criminal behaviors. Biophysiology and crime, stress and crime, maladjustment patterns, psychoses, personality disorders, aggression and violent crime, sex-motivated crime and sexual deviations, alcohol and drug abuse, and criminal behavior.

0101	David Bierie	Seats (Total: 50)
	W 5:00pm - 7:30pm	TYD 1132

CCJS498C Selected Topics in Criminology and Criminal Justice; Police and Campus Interaction

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

0101	James Lynch	Seats (Total: 32)
	MW 3:30pm - 4:45pm	LEF 1220

CCJS498D Selected Topics in Criminology and Criminal Justice; Crisis Management and Leadership for Public Safety

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Charles Jordan	Seats (Total: 40)
	Th 11:00am - 1:30pm	BLD3 4215
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS498F**Selected Topics in Criminology and Criminal Justice; Recruitment and Retention of Public Safety Professionals**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Shawn Eastman	Seats (Total: 40)
	W 11:00am - 1:30pm	BLD3 3225
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS498G**Selected Topics in Criminology and Criminal Justice; Gangs**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

Prerequisites: CCJS100 and CCJS105.

0101	Brian Engelmann, Justine Madoo	Seats (Total: 50)
	M 5:00pm - 7:30pm	LEF 2208

CCJS498N**Selected Topics in Criminology and Criminal Justice; Homeland Security Intelligence**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology an criminal justice. Offered in response to student request and faculty interest.

SG91	Louis Morlier	Seats (Total: 40)
	M 2:00pm - 3:15pm	BLD3 4212
	Class time/details on ELMs	ONLINE
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS498V**Selected Topics in Criminology and Criminal Justice; Rules of Engagement: Evidence in Criminal Trials**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in criminology and criminal justice. Offered in response to student request and faculty interest.

SG91	James Trusty	Seats (Total: 40)
	Tu 6:30pm - 9:00pm	BLD3 4212
<i>Limit to CCJS students at Shady Grove.</i>		

CCJS602 Courts and Sentencing

Credits: 3 Grading Method: Regular

Research and theory on prosecution, plea-bargaining, sentencing principles and guidelines, and sentencing policies in practice. Mandatory minimum sentencing, "three strikes" laws, race, gender and class disparities, general and specific deterrent effects of sentencing, restitution and restorative justice, diversion and sentencing to treatment.

0101	Brian Johnson	Seats (Total: 20)
	W 4:00pm - 6:45pm	LEF 2165E

CCJS604 Policy Analysis Project

(Perm req)

Credits: 3 Grading Method: Regular

An application of statistical and conceptual tools to criminal justice data in the student's area of concentration, resulting in a paper reporting the conceptualization, analytic methods and results. The topic of the independent study will be chosen through individual consultation with the instructor.

Contact department for information to register for this course.

CCJS610 Research Methods in Criminal Justice and Criminology

Credits: 3 Grading Method: Regular,
Audit

Formerly: CRIM610.

Examination of special research problems and techniques.

0101	Min Xie	Seats (Total: 23)
	W 4:45pm - 7:30pm	KEY 0121

CCJS621 General Linear Models in Criminal Justice Research

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CCJS620. Credit only granted for: CCJS498F or CCJS621. Formerly: CCJS498F.

An in-depth exploration of applied linear regression analysis. Covers characteristics of estimates, such as unbiasedness and efficiency. Encourages fluency with the theoretical issues involved in the basic linear regression using simple algebra, familiarity with the general model using matrix algebra, and fluency with the computer application of multivariate regressions and the probit/logit models.

0101	Kiminori Nakamura	Seats (Total: 25)
	M 4:00pm - 6:45pm	TYD 0111

CCJS651 Seminar in Criminology

Credits: 3 Grading Method: Regular,
 Audit

Formerly: CRIM651.

Analysis of significant recent issues in Criminology.

0101	Jean McGloin	Seats (Total: 25)
	Tu 3:00pm - 5:45pm	TYD 2106

CCJS663 Issues in Corporate Crime

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: CCJS699S or CCJS663. Formerly: CCJS699S.

Overview of what is known about corporate crime and criminals (e.g.: similarities to and differences from other offenders and crime types; characteristics of offenders and victims; what counts as corporate crime ; introduction to theoretical frameworks.) Readings and class materials will coalesce around specific issues about which there is much debate but scant empirical research. Discussions will center around what is known, what is not, what needs to be done and how.

0101	Sally Simpson	Seats (Total: 20)
	M 4:00pm - 6:45pm	LEF 2165E

CCJS667 Innovations in Policing: Programs, Policies and Research

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: CCJS667 or CCJS699W. Formerly: CCJS699W.

Examine the factors that have led to recent police innovations and recent innovations in the study of policing. Critically explores the effects of such policies on crime and disorder, on research practices, as well as unintended consequences on community, police abuse and police organization. Which policies have been found to be effective? What types of practices work most effectively for what type of crime and disorder problems? Has there been sufficient research for us to come to solid conclusions regarding these questions? Does present research fit the practices of the police?

0101	Lawrence Sherman	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	LEF 2165E

CCJS678D Advanced Topics in Criminology and Criminal Justice

Credits: 3 Grading Method: Regular,
Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS678E Advanced Topics in Criminology and Criminal Justice

Credits: 3 Grading Method: Regular,
Audit

An analysis of contemporary issues in criminology and criminal justice with special emphasis on research and theory developments.

Contact department for information to register for this course.

CCJS680 Drugs and Crime

Credits: 3 Grading Method: Regular

The relationship between drug use and crime. Policy concerning drug control enforcement, prosecution and sentencing. impact of drug treatment in criminal justice Impact of drug treatment in criminal justice settings, drug courts, drug-testing strategies and surveillance of former drug abusers in the community.

Contact department for information to register for this course.

CCJS699 Special Criminological Problems

Credits: 1-3 Grading Method: Regular,
Audit

Supervised study of a selected problem in the field of criminal justice.

Contact department for information to register for this course.

CCJS699K Special Criminological Problems; Research Practicum

Credits: 3 Grading Method: Regular,
Audit

Supervised study of a selected problem in the field of criminal justice.

0101	Denise Gottfredson	Seats (Total: 20)
	Th 4:00pm - 6:45pm	LEF 2220CC

CCJS699T Special Criminological Problems; Longitudinal Data Analysis

Credits: 1-3 Grading Method: Regular,
Audit

Supervised study of a selected problem in the field of criminal justice.

0101	Thomas Loughran	Seats (Total: 20)
	Tu 10:00am - 12:45pm	LEF 2165E

CCJS799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CCJS898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CCJS899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Doctoral dissertation research in criminal justice and criminology.

Contact department for information to register for this course.

**CHBE Chemical and Biomolecular
Engineering**

Spring 2016

CHBE101 Introduction to Chemical and Biomolecular Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM135; or students who have taken courses with comparable content may contact the department. Corequisite: MATH141. Restriction: Must be in Engineering: Chemical program; or permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE101 or ENCH215. Formerly: ENCH215.

Introduction to methods of chemical engineering calculations and analysis. Stoichiometric relations, material and energy balances, and behavior of gases, vapors, liquids and solids. Analytical and computer methods.

0101	Ganesh Sriram	Seats (Total: 120)	
	MWF 12:00pm - 12:50pm	JMP 3201	
	F 1:00pm - 1:50pm	JMP 3201	Discussion

CHBE302 Chemical and Biomolecular Engineering Thermodynamics II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHBE301. Corequisite: CHBE250. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE302 or ENCH400. Formerly: ENCH400.

Contemporary trends in chemical engineering thermodynamics that bridge the gap between fundamentals and applications. Thermodynamic analysis of non-ideal and structured systems; such as complex fluids, strongly fluctuating and nanoscale systems, dissipative systems, biosystems, and systems under extreme conditions.

0101	Jeffery Klauda	Seats (Total: 120)	
	TuTh 9:30am - 10:45am	EGR 1202	
	F 3:00pm - 3:50pm	EGR 1202	Discussion

CHBE333 Chemical Engineering Seminar

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Junior standing; and must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE333 or ENCH333. Formerly: ENCH333.

To develop oral communication skills through a series of class presentations of current chemical engineering topics.

0101	Mohammad Soltanieh	Seats (Total: 15)	
	W 2:00pm - 2:50pm	EGR 3111	

0102	Mohammad Soltanieh W 11:00am - 11:50am	Seats (Total: 15) CHE 2145
0103	Sheryl Ehrman Th 3:30pm - 4:20pm	Seats (Total: 15) CHE 2113
0104	Mohammad Soltanieh W 12:00pm - 12:50pm	Seats (Total: 15) CHE 2145

CHBE424

Chemical and Biomolecular Engineering Transport Phenomena II

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHBE422. Corequisite: CHBE302. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE424 or ENCH424. Formerly: ENCH424.

Principles of mass and heat transfer as applied to model development an process design. Species continuity equation with application to diffusion, and convection in laminar flow. Macroscopic balances and mass transfer coefficients with application to turbulent flow. Microscopic equation of energy with application to heat conduction, and convection in laminar flow. Macroscopic energy balance and heat transfer coefficients with application to turbulent flow. Heat exchanger design.

0101	Nam Sun Wang TuTh 2:00pm - 3:15pm F 2:00pm - 2:50pm	Seats (Total: 120) CHE 2110 JMP 3201	Discussion
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CHBE426

Chemical and Biomolecular Separation Processes

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Corequisite: CHBE302; and CHBE424. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE426 or ENCH426. Formerly: ENCH426.

Separation by stages operations. Rate dependent separation processes. Design application in distillation, gas absorption, liquid extraction, drying, adsorption and ion exchange.

0101	Xiaochuan Yang MWF 8:00am - 8:50am W 1:00pm - 1:50pm	Seats (Total: 60) CHE 2110 CHE 2110	Discussion
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0102	Xiaochuan Yang	Seats (Total: 60)	
	MWF 8:00am - 8:50am	CHE 2110	
	W 10:00am - 10:50am	KEB 1200	Discussion

CHBE446 Process Engineering Economics and Design II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHBE442 and CHBE444. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE446 or ENCH446. Formerly: ENCH446.

Application of chemical engineering principles for the design of chemical processing equipment. Representative problems in the design of chemical plants will be the focus of this capstone design class. Comprehensive reports are required.

0101	Carmo Pereira, Raymond Adomaitis	Seats (Total: 40)
	W 3:00pm - 5:40pm	KEB 1200
0301	Raymond Adomaitis, Carmo Pereira	Seats (Total: 40)
	F 1:00pm - 3:40pm	CHM 0119

CHBE468 Research

(Perm req)

Credits: 1-3 Grading Method: Regular

Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.

Contact department for information to register for this course.

CHBE472 Control of Air Pollution Sources

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Sources and effects of air pollutants, regulatory trends, atmospheric dispersion models, fundamentals of two-phase flow as applied to air pollution and air pollution control systems, design of systems for control of gases and particulate matter.

0101	Mohammad Soltanieh	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	EGR 1104

CHBE473**Electrochemical Energy Engineering**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH468K or CHBE473. Formerly: ENCH468K.

The lecture will start from the basic electrochemical thermodynamics and kinetics, with emphasis on electrochemical techniques, fundamental principle and performance of batteries, and supercapacitors.

0101	Chunsheng Wang	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMP 2216

CHBE480**Bionanotechnology: Physical Principles**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BIOE120; or (BSCI170 and BSCI171); or BSCI105. And BCHM461; or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Physics at nano/micro scales. Biomolecular building blocks. Simplest biomolecular assembly: protein folding. Nanoscale intermolecular interactions important for biology. Protein-ligand binding. Protein higher-order assembly: filaments, networks. Protein filaments and motility. DNA, RNA and their assembly assisted by proteins. Viral capsid assembly. Lipid assembly into micelles, bilayers. Lipid-protein co-assembly in membranes. Lipid and polymer structures useful in medicine. Targeted delivery of drugs, genes by nano/micro structures. Cellular assembly in the eye, in insect wings. Cellular assembly at surfaces: gecko feet, duck feathers. Cellular assembly in the presence of crystals: biomineralization.

0101	Srinivasa Raghavan	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CHE 2110

CHBE482**Biochemical Engineering**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHBE440. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE482 or ENCH482. Formerly: ENCH482.

Introduction to biochemical and microbiological applications to commercial and engineering processes, including industrial fermentation, enzymology, ultrafiltration, food and pharmaceutical processing and resulting waste treatment. Enzyme kinetics, cell growth, energetics and mass transfer.

0101	Nam Sun Wang	Seats (Total: 33)
	TuTh 12:30pm - 1:45pm	EGR 1104

CHBE487 Tissue Engineering

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed at least one biology course; and MATH241. Recommended: BSCI330 and BIOE340. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; or permission of ENGR-Chemical & Biomolecular Engineering department. Also offered as: BIOE411. Credit only granted for: BIOE411, CHBE487, or ENCH468T. Formerly: ENCH468T.

A review of the fundamental principles involved in the design of engineered tissues and organs. Both biological and engineering fundamentals will be considered.

0101	John Fisher	Seats (Total: 10)
	W 2:00pm - 4:30pm	CHE 2118

CHBE490 Polymer Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: ENMA495. Credit only granted for: CHBE490, ENCH490, or ENMA495. Formerly: ENCH490.

The elements of the polymer chemistry and industrial polymerization, polymer structures and physics, thermodynamics of polymer solutions, polymer processing methods, and engineering applications of polymers.

0101	Kyu Yong Choi	Seats (Total: 40)
	TuTh 9:30am - 10:45am	PHY 1204

CHEM Chemistry Spring 2016

CHEM131 Chemistry I - Fundamentals of General Chemistry

Credits: 3 Grading Method: Regular, General Education: DSNL (if
Pass-Fail, Audit taken with CHEM132)

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.

An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.

1115	Soumya Rastogi TuTh 8:00am - 9:15am M 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1116	Soumya Rastogi TuTh 8:00am - 9:15am M 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1117	Soumya Rastogi TuTh 8:00am - 9:15am M 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1135	Soumya Rastogi TuTh 8:00am - 9:15am W 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1136	Soumya Rastogi TuTh 8:00am - 9:15am W 1:00pm - 1:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1138	Soumya Rastogi TuTh 8:00am - 9:15am W 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0122	Discussion
1214	Lenea Stocker TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 35) CHM 1407 CHM 0128	Discussion
1215	Lenea Stocker TuTh 11:00am - 12:15pm M 12:00pm - 12:50pm	Seats (Total: 35) CHM 1407 CHM 0128	Discussion
1218	Lenea Stocker TuTh 11:00am - 12:15pm M 3:00pm - 3:50pm	Seats (Total: 35) CHM 1407 CHM 0128	Discussion

1234	Lenea Stocker TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 35) CHM 1407 CHM 0128	Discussion
1235	Lenea Stocker TuTh 11:00am - 12:15pm W 12:00pm - 12:50pm	Seats (Total: 35) CHM 1407 CHM 0128	Discussion
1238	Lenea Stocker TuTh 11:00am - 12:15pm W 3:00pm - 3:50pm	Seats (Total: 35) CHM 1407 CHM 0128	Discussion
1314	Soumya Rastogi TuTh 12:30pm - 1:45pm M 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1315	Soumya Rastogi TuTh 12:30pm - 1:45pm M 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1317	Soumya Rastogi TuTh 12:30pm - 1:45pm M 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1334	Soumya Rastogi TuTh 12:30pm - 1:45pm W 11:00am - 11:50am	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1335	Soumya Rastogi TuTh 12:30pm - 1:45pm W 12:00pm - 12:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion
1337	Soumya Rastogi TuTh 12:30pm - 1:45pm W 2:00pm - 2:50pm	Seats (Total: 34) CHM 1407 CHM 0127	Discussion

SES1	Michelle Brooks	Seats (Total: 35)	
	M 6:30pm - 9:30pm	PLS 1117	
	W 6:30pm - 7:20pm	CHM 0127	Discussion
<p><i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>			

CHEM132 General Chemistry I Laboratory

Credits: 1 Grading Method: Regular,
Pass-Fail

Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.

Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.

Laboratory sessions will begin after the first lecture. Students must pay a \$40.00 Laboratory Materials fee.

1121	Christiana Addei-Maanu	Seats (Total: 24)	
	M 12:00pm - 2:50pm	CHM 1105	Lab
1122	Christiana Addei-Maanu	Seats (Total: 24)	
	M 12:00pm - 2:50pm	CHM 1106	Lab
1131	Christiana Addei-Maanu	Seats (Total: 24)	
	M 3:00pm - 5:50pm	CHM 1105	Lab
1132	Christiana Addei-Maanu	Seats (Total: 24)	
	M 3:00pm - 5:50pm	CHM 1106	Lab
1212	Christiana Addei-Maanu	Seats (Total: 24)	
	Tu 8:00am - 10:50am	CHM 1106	Lab
1221	Christiana Addei-Maanu	Seats (Total: 24)	
	Tu 12:30pm - 3:20pm	CHM 1105	Lab
1222	Christiana Addei-Maanu	Seats (Total: 24)	
	Tu 12:30pm - 3:20pm	CHM 1106	Lab

1231	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1105	Lab
1232	Christiana Addei-Maanu Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1106	Lab
1241	Christiana Addei-Maanu Tu 6:30pm - 9:20pm	Seats (Total: 24) CHM 1105	Lab
1312	Christiana Addei-Maanu W 8:00am - 10:50am	Seats (Total: 24) CHM 1106	Lab
1321	Christiana Addei-Maanu W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1105	Lab
1331	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1105	Lab
1332	Christiana Addei-Maanu W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1106	Lab
1341	Christiana Addei-Maanu W 6:00pm - 8:50pm	Seats (Total: 24) CHM 1105	Lab
1411	Christiana Addei-Maanu Th 8:00am - 10:50am	Seats (Total: 24) CHM 1105	Lab
1422	Christiana Addei-Maanu Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1106	Lab
1431	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1105	Lab
1432	Christiana Addei-Maanu Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1106	Lab
1511	Christiana Addei-Maanu F 8:00am - 10:50am	Seats (Total: 24) CHM 1106	Lab
1521	Christiana Addei-Maanu F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1105	Lab

1522	Christiana Addei-Maanu	Seats (Total: 24)	
	F 12:00pm - 2:50pm	CHM 1106	Lab
1531	Christiana Addei-Maanu	Seats (Total: 24)	
	F 3:00pm - 5:50pm	CHM 1105	Lab
SES1	Christiana Addei-Maanu	Seats (Total: 24)	
	W 7:30pm - 10:20pm	CHM 1106	Lab
<p><i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>			

CHEM134 Chemical Principles for Engineering

Credits: 1 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131; or minimum grade of C- in CHEM146. Credit only granted for: CHEM 134 or CHEM 135.

Basic chemistry for engineering students. Introduction to organic structures and polymers, gas laws, liquids, solids, phase changes, chemical kinetics and electrochemistry.

0103	Bonnie Dixon	Seats (Total: 45)	
	Tu 9:30am - 10:20am	CHM 1109	
0105	Bonnie Dixon	Seats (Total: 45)	
	F 2:00pm - 2:50pm	CHM 1109	

CHEM135 General Chemistry for Engineers

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH220, MATH130, or MATH140. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.

The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.

3125	Elizabeth Griffith	Seats (Total: 25)	
	MWF 3:00pm - 3:50pm	CHM 1407	
	Tu 12:30pm - 1:20pm	CHM 0124	Discussion

3127	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 25) CHM 1407 CHM 0124	Discussion
3128	Elizabeth Griffith MWF 3:00pm - 3:50pm Tu 3:30pm - 4:20pm	Seats (Total: 25) CHM 1407 CHM 0124	Discussion
3145	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 12:30pm - 1:20pm	Seats (Total: 25) CHM 1407 CHM 0124	Discussion
3147	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 25) CHM 1407 CHM 0124	Discussion
3148	Elizabeth Griffith MWF 3:00pm - 3:50pm Th 3:30pm - 4:20pm	Seats (Total: 25) CHM 1407 CHM 0124	Discussion
3224	Cheng Lee MWF 8:00am - 8:50am Tu 12:30pm - 1:20pm	Seats (Total: 25) BRB 1101 CHM 0127	Discussion
3227	Cheng Lee MWF 8:00am - 8:50am Tu 2:00pm - 2:50pm	Seats (Total: 25) BRB 1101 CHM 0127	Discussion
3228	Cheng Lee MWF 8:00am - 8:50am Tu 3:30pm - 4:20pm	Seats (Total: 25) BRB 1101 CHM 0127	Discussion
3244	Cheng Lee MWF 8:00am - 8:50am Th 12:30pm - 1:20pm	Seats (Total: 25) BRB 1101 CHM 0127	Discussion
3247	Cheng Lee MWF 8:00am - 8:50am Th 2:00pm - 2:50pm	Seats (Total: 25) BRB 1101 CHM 0127	Discussion

3248	Cheng Lee	Seats (Total: 25)	
	MWF 8:00am - 8:50am	BRB 1101	
	Th 3:30pm - 4:20pm	CHM 0127	Discussion

CHEM136 General Chemistry Laboratory for Engineers

Credits: 1 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CHEM135. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

A laboratory course for engineering majors intending to take CHEM231 and CHEM232.

Students must pay a \$40.00 lab materials fee.

3131	Natalia White	Seats (Total: 24)	
	M 3:00pm - 5:50pm	CHM 1111	Lab
3231	Natalia White	Seats (Total: 24)	
	Tu 3:30pm - 6:20pm	CHM 1111	Lab

CHEM231 Organic Chemistry I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.

5116	Joseph Houck	Seats (Total: 38)	
	TuTh 2:00pm - 3:15pm	CHM 1407	
	M 1:00pm - 1:50pm	CHM 1224	Discussion
5117	Joseph Houck	Seats (Total: 38)	
	TuTh 2:00pm - 3:15pm	CHM 1407	
	M 2:00pm - 2:50pm	CHM 1224	Discussion

5118	Joseph Houck TuTh 2:00pm - 3:15pm M 3:00pm - 3:50pm	Seats (Total: 38) CHM 1407 CHM 1224	Discussion
5136	Joseph Houck TuTh 2:00pm - 3:15pm W 1:00pm - 1:50pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5137	Joseph Houck TuTh 2:00pm - 3:15pm W 2:00pm - 2:50pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5138	Joseph Houck TuTh 2:00pm - 3:15pm W 3:00pm - 3:50pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5221	Lenea Stocker MWF 8:00am - 8:50am Tu 8:00am - 8:50am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5222	Lenea Stocker MWF 8:00am - 8:50am Tu 9:30am - 10:20am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5225	Lenea Stocker MWF 8:00am - 8:50am Tu 11:00am - 11:50am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5241	Lenea Stocker MWF 8:00am - 8:50am Th 8:00am - 8:50am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5242	Lenea Stocker MWF 8:00am - 8:50am Th 9:30am - 10:20am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5245	Lenea Stocker MWF 8:00am - 8:50am Th 11:00am - 11:50am	Seats (Total: 38) CHM 1407 CHM 0119	Discussion

5322	Lee Friedman MWF 9:00am - 9:50am Tu 12:30pm - 1:20pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5325	Lee Friedman MWF 9:00am - 9:50am Tu 2:00pm - 2:50pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5328	Lee Friedman MWF 9:00am - 9:50am Tu 3:30pm - 4:20pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5342	Lee Friedman MWF 9:00am - 9:50am Th 12:30pm - 1:20pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5345	Lee Friedman MWF 9:00am - 9:50am Th 2:00pm - 2:50pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5348	Lee Friedman MWF 9:00am - 9:50am Th 3:30pm - 4:20pm	Seats (Total: 38) CHM 1407 CHM 0119	Discussion
5421	Bonnie Dixon MWF 1:00pm - 1:50pm Tu 12:30pm - 1:20pm	Seats (Total: 38) CHM 1407 CHM 0115	Discussion
5427	Bonnie Dixon MWF 1:00pm - 1:50pm Tu 2:00pm - 2:50pm	Seats (Total: 38) CHM 1407 CHM 0115	Discussion
5428	Bonnie Dixon MWF 1:00pm - 1:50pm Tu 3:30pm - 4:20pm	Seats (Total: 38) CHM 1407 CHM 0115	Discussion
5441	Bonnie Dixon MWF 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 38) CHM 1407 CHM 0115	Discussion

5447	Bonnie Dixon	Seats (Total: 38)	
	MWF 1:00pm - 1:50pm	CHM 1407	
	Th 2:00pm - 2:50pm	CHM 0115	Discussion
5448	Bonnie Dixon	Seats (Total: 38)	
	MWF 1:00pm - 1:50pm	CHM 1407	
	Th 3:30pm - 4:20pm	CHM 0115	Discussion
SES1	William Hollinsed	Seats (Total: 20)	
	M 6:30pm - 9:30pm	CHM 1224	
	W 6:30pm - 7:20pm	CHM 0124	Discussion
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>			
SES2	William Hollinsed	Seats (Total: 20)	
	M 6:30pm - 9:30pm	CHM 1224	
	W 6:30pm - 7:20pm	CHM 0128	Discussion
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>			

CHEM232

Organic Chemistry Laboratory I

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Students must pay a \$40.00 lab materials fee.

5123	Monique Koppel	Seats (Total: 18)	
	M 12:00pm - 2:50pm	CHM 1346	Lab
5124	Monique Koppel	Seats (Total: 18)	
	M 12:00pm - 2:50pm	CHM 1356	Lab

5125	Monique Koppel M 12:00pm - 2:50pm	Seats (Total: 18) CHM 1360	Lab
5131	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1330	Lab
5132	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5134	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5135	Monique Koppel M 3:00pm - 5:50pm	Seats (Total: 18) CHM 1360	Lab
5141	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
5142	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1342	Lab
5144	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1356	Lab
5145	Monique Koppel M 6:00pm - 8:50pm	Seats (Total: 18) CHM 1360	Lab
5221	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
5222	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5223	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5224	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5225	Monique Koppel Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1360	Lab

5231	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1330	Lab
5232	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5233	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5234	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5235	Monique Koppel Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1360	Lab
5241	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1330	Lab
5244	Monique Koppel Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1356	Lab
5312	Monique Koppel W 8:00am - 10:50am	Seats (Total: 18) CHM 1342	Lab
5322	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1342	Lab
5323	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5324	Monique Koppel W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1356	Lab
5331	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1330	Lab
5332	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1342	Lab
5333	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1346	Lab

5334	Monique Koppel W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1356	Lab
5341	Monique Koppel W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1330	Lab
5411	Monique Koppel Th 8:00am - 10:50am	Seats (Total: 18) CHM 1330	Lab
5421	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1330	Lab
5422	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1342	Lab
5423	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1346	Lab
5424	Monique Koppel Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1356	Lab
5432	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1342	Lab
5433	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1346	Lab
5434	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1356	Lab
5435	Monique Koppel Th 3:30pm - 6:20pm	Seats (Total: 14) CHM 1360	Lab
5520	Monique Koppel F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1326	Lab
5523	Monique Koppel F 12:00pm - 2:50pm	Seats (Total: 18) CHM 1346	Lab
5530	Monique Koppel F 3:00pm - 5:50pm	Seats (Total: 18) CHM 1326	Lab

SES1	Monique Koppel	Seats (Total: 18)	
	W 7:30pm - 10:20pm	CHM 1346	Lab
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>			
SES2	Monique Koppel	Seats (Total: 18)	
	W 7:30pm - 10:20pm	CHM 1342	Lab
<i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>			

CHEM232S Organic Chemistry Laboratory I

Credits: 1 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.

Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.

Students must pay a \$40.00 lab materials fee.

5133	Monique Koppel	Seats (Total: 18)	
	M 3:00pm - 5:50pm	CHM 1346	Lab
5321	Monique Koppel	Seats (Total: 18)	
	W 12:00pm - 2:50pm	CHM 1330	Lab

CHEM237 Principles of Organic Chemistry I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, or CHEM147); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Or permission of CMNS-Chemistry & Biochemistry department. Restriction: Must be in one of the following programs (Chemistry; Biochemistry) ; or must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: CHEM233, (CHEM231 and CHEM232), or CHEM237.

The chemistry of carbons: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters, and spectroscopy.

Students must pay a \$40.00 lab materials fee.

5241	Jeffery Davis	Seats (Total: 18)		
	MWF 10:00am - 10:50am	CHM 1402		
	Tu 6:30pm - 9:20pm	CHM 1360	Lab	
	Tu 2:00pm - 2:50pm	CHM 1228	Discussion	
5242	Jeffery Davis	Seats (Total: 18)		
	MWF 10:00am - 10:50am	CHM 1402		
	W 12:00pm - 2:50pm	CHM 1360	Lab	
	Tu 2:00pm - 2:50pm	CHM 1228	Discussion	
5243	Jeffery Davis	Seats (Total: 18)		
	MWF 10:00am - 10:50am	CHM 1402		
	W 3:00pm - 5:50pm	CHM 1360	Lab	
	Tu 12:30pm - 1:20pm	CHM 1228	Discussion	
5244	Jeffery Davis	Seats (Total: 18)		
	MWF 10:00am - 10:50am	CHM 1402		
	Th 12:30pm - 3:20pm	CHM 1360	Lab	
	Tu 12:30pm - 1:20pm	CHM 1228	Discussion	

CHEM241

Organic Chemistry II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.

A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.

6121	Lyle Isaacs MWF 10:00am - 10:50am Tu 8:00am - 8:50am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6125	Lyle Isaacs MWF 10:00am - 10:50am Tu 9:30am - 10:20am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6127	Lyle Isaacs MWF 10:00am - 10:50am Tu 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6141	Lyle Isaacs MWF 10:00am - 10:50am Th 8:00am - 8:50am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6145	Lyle Isaacs MWF 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6147	Lyle Isaacs MWF 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 0127	Discussion
6222	Daniel Falvey MW 4:00pm - 5:15pm Tu 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 0122	Discussion
6225	Daniel Falvey MW 4:00pm - 5:15pm Tu 12:30pm - 1:20pm	Seats (Total: 29) CHM 1407 CHM 0122	Discussion
6227	Daniel Falvey MW 4:00pm - 5:15pm Tu 2:00pm - 2:50pm	Seats (Total: 29) CHM 1407 CHM 0122	Discussion
6242	Daniel Falvey MW 4:00pm - 5:15pm Th 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 0122	Discussion

6245	Daniel Falvey MW 4:00pm - 5:15pm Th 12:30pm - 1:20pm	Seats (Total: 29) CHM 1407 CHM 0122	Discussion
6247	Daniel Falvey MW 4:00pm - 5:15pm Th 2:00pm - 2:50pm	Seats (Total: 29) CHM 1407 CHM 0122	Discussion
6321	Michael Montague-Smith MWF 2:00pm - 2:50pm Tu 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
6322	Michael Montague-Smith MWF 2:00pm - 2:50pm Tu 12:30pm - 1:20pm	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
6325	Michael Montague-Smith MWF 2:00pm - 2:50pm Tu 2:00pm - 2:50pm	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
6341	Michael Montague-Smith MWF 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
6342	Michael Montague-Smith MWF 2:00pm - 2:50pm Th 12:30pm - 1:20pm	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
6345	Michael Montague-Smith MWF 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 29) CHM 1407 CHM 1109	Discussion
SES1	Howard Fribush M 6:30pm - 9:30pm W 6:30pm - 7:20pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 22) PLS 1140 CHM 0119	Discussion

SES2	Howard Fribush	Seats (Total: 19)	
	M 6:30pm - 9:30pm	PLS 1140	
	W 6:30pm - 7:20pm	CHM 0119	Discussion
<p><i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>			

CHEM242

Organic Chemistry Laboratory II

Credits: 1

Grading Method: Regular

Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.

Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.

Students must pay a \$40.00 lab materials fee.

6121	Lee Friedman	Seats (Total: 18)	
	M 12:00pm - 2:50pm	CHM 1302	Lab
6131	Lee Friedman	Seats (Total: 18)	
	M 3:00pm - 5:50pm	CHM 1302	Lab
6132	Lee Friedman	Seats (Total: 18)	
	M 3:00pm - 5:50pm	CHM 1308	Lab
6142	Lee Friedman	Seats (Total: 18)	
	M 6:00pm - 8:50pm	CHM 1308	Lab
6143	Lee Friedman	Seats (Total: 18)	
	M 6:00pm - 8:50pm	CHM 1326	Lab
6211	Lee Friedman	Seats (Total: 18)	
	Tu 8:00am - 10:50am	CHM 1302	Lab
6221	Lee Friedman	Seats (Total: 18)	
	Tu 12:30pm - 3:20pm	CHM 1302	Lab

6222	Lee Friedman Tu 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6231	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1302	Lab
6232	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6233	Lee Friedman Tu 3:30pm - 6:20pm	Seats (Total: 18) CHM 1326	Lab
6242	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1308	Lab
6243	Lee Friedman Tu 6:30pm - 9:20pm	Seats (Total: 18) CHM 1326	Lab
6311	Lee Friedman W 8:00am - 10:50am	Seats (Total: 18) CHM 1302	Lab
6322	Lee Friedman W 12:00pm - 2:50pm	Seats (Total: 18) CHM 1308	Lab
6331	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1302	Lab
6332	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1308	Lab
6333	Lee Friedman W 3:00pm - 5:50pm	Seats (Total: 18) CHM 1326	Lab
6341	Lee Friedman W 6:00pm - 8:50pm	Seats (Total: 18) CHM 1302	Lab
6411	Lee Friedman Th 8:00am - 10:50am	Seats (Total: 18) CHM 1302	Lab
6421	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1302	Lab

6422	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1308	Lab
6423	Lee Friedman Th 12:30pm - 3:20pm	Seats (Total: 18) CHM 1326	Lab
6432	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1308	Lab
6433	Lee Friedman Th 3:30pm - 6:20pm	Seats (Total: 18) CHM 1326	Lab
SES2	Lee Friedman W 7:30pm - 10:20pm <i>This section is restricted to students who enroll through the Science i the Evening program and may not be added on Testudo. Click herefor comp lete program details including program eligibility information, tuition fee information and registration instructions.</i>	Seats (Total: 18) CHM 1326	Lab

CHEM271

General Chemistry and Energetics

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.

An introduction to the physical aspects of chemistry; chemical kinetics thermodynamics and electrochemistry in the context of current chemistry research.

2122	Alice Mignerey MW 11:00am - 11:50am Tu 8:00am - 8:50am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion
2124	Alice Mignerey MW 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion
2125	Alice Mignerey MW 11:00am - 11:50am Tu 11:00am - 11:50am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion

2142	Alice Mignerey MW 11:00am - 11:50am Th 8:00am - 8:50am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion
2144	Alice Mignerey MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion
2145	Alice Mignerey MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 24) CHM 1407 CHM 0115	Discussion
2224	Michael Zachariah MW 12:00pm - 12:50pm Tu 12:30pm - 1:20pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2227	Michael Zachariah MW 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2228	Michael Zachariah MW 12:00pm - 12:50pm Tu 3:30pm - 4:20pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2244	Michael Zachariah MW 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2247	Michael Zachariah MW 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2248	Michael Zachariah MW 12:00pm - 12:50pm Th 3:30pm - 4:20pm	Seats (Total: 24) CHM 1407 CHM 2201	Discussion
2323	Jason Kahn MW 8:00am - 8:50am Tu 11:00am - 11:50am	Seats (Total: 24) HJP 0226 CHM 0128	Discussion

2324	Jason Kahn MW 8:00am - 8:50am Tu 12:30pm - 1:20pm	Seats (Total: 24) HJP 0226 CHM 0128	Discussion
2325	Jason Kahn MW 8:00am - 8:50am Tu 2:00pm - 2:50pm	Seats (Total: 24) HJP 0226 CHM 0128	Discussion
2343	Jason Kahn MW 8:00am - 8:50am Th 11:00am - 11:50am	Seats (Total: 24) HJP 0226 CHM 0128	Discussion
2344	Jason Kahn MW 8:00am - 8:50am Th 12:30pm - 1:20pm	Seats (Total: 24) HJP 0226 CHM 0128	Discussion
2345	Jason Kahn MW 8:00am - 8:50am Th 2:00pm - 2:50pm	Seats (Total: 24) HJP 0226 CHM 0128	Discussion
SES1	Daniel Gowetski M 6:00pm - 7:50pm W 6:30pm - 7:20pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 24) CHM 1228 CHM 1228	Discussion

CHEM272

General Bioanalytical Chemistry Laboratory

Credits: 2 Grading Method: Regular,
Pass-Fail

Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.

An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.

Students must pay a \$40.00 lab materials fee.

7121	Joseph Houck F 11:00am - 11:50am M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
7131	Joseph Houck F 11:00am - 11:50am M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
7331	Joseph Houck F 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
7332	Joseph Houck F 11:00am - 11:50am W 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
7421	Joseph Houck F 11:00am - 11:50am Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
7422	Joseph Houck F 11:00am - 11:50am Th 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
7521	Joseph Houck F 11:00am - 11:50am F 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
7531	Joseph Houck F 11:00am - 11:50am F 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8121	Joseph Houck F 12:00pm - 12:50pm M 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
8132	Joseph Houck F 12:00pm - 12:50pm M 3:00pm - 5:50pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab

8142	Joseph Houck F 12:00pm - 12:50pm M 6:00pm - 8:50pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
8212	Joseph Houck F 12:00pm - 12:50pm Tu 8:00am - 10:50am	Seats (Total: 24) CHM 1407 CHM 1128	Lab
8221	Joseph Houck F 12:00pm - 12:50pm Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8222	Joseph Houck F 12:00pm - 12:50pm Tu 12:30pm - 3:20pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
8231	Joseph Houck F 12:00pm - 12:50pm Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8241	Joseph Houck F 12:00pm - 12:50pm Tu 6:30pm - 9:20pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8242	Joseph Houck F 12:00pm - 12:50pm Tu 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab
8321	Joseph Houck F 12:00pm - 12:50pm W 12:00pm - 2:50pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8431	Joseph Houck F 12:00pm - 12:50pm Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 CHM 1112	Lab
8512	Joseph Houck F 12:00pm - 12:50pm Th 3:30pm - 6:20pm	Seats (Total: 24) CHM 1407 CHM 1128	Lab

SES1	Joseph Houck	Seats (Total: 24)
	M 8:00pm - 8:50pm	CHM 1228
	W 7:30pm - 10:30pm	CHM 1128 Lab
<p><i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>		

CHEM276 General Chemistry and Energetics - Majors

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM277. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM153.

An introduction to the physical aspects of chemistry for Biochemistry and Chemistry majors. Chemical kinetics, thermodynamics and electrochemistry in the context of current chemistry research.

0224	John Fourkas	Seats (Total: 45)
	WF 9:00am - 9:50am	CSS 2400
	Tu 11:00am - 11:50am	CHM 1224 Discussion
0225	John Fourkas	Seats (Total: 45)
	WF 9:00am - 9:50am	CSS 2400
	Th 12:30pm - 1:20pm	CHM 1228 Discussion

CHEM277 Fundamentals of Analytical and Bioanalytical Chemistry Laboratory

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM276. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM153, CHEM227, CHEM272 or CHEM277.

Quantitative analysis, inorganic analytical chemistry, and an introduction to bio-analytical instrumentation and techniques.

Students must pay a \$40.00 lab materials fee.

0211	Joseph Houck	Seats (Total: 18)
	M 9:00am - 9:50am	CSS 2400
	MW 3:00pm - 5:50pm	CHM 3217 Lab

0223	Joseph Houck	Seats (Total: 18)	
	M 9:00am - 9:50am	CSS 2400	
	TuTh 3:30pm - 6:20pm	CHM 3217	Lab
0232	Joseph Houck	Seats (Total: 18)	
	M 9:00am - 9:50am	CSS 2400	
	WF 12:00pm - 2:50pm	CHM 3217	Lab

CHEM391 Pedagogy and Instruction in Chemistry

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Permission of instructor; and minimum grade of B- in CHEM231; and must have completed or be concurrently enrolled in CHEM241.

Methodologies, theory and educational tools applicable to the field of undergraduate chemistry education. Examples covered will use content from introductory general and organic chemistry courses.

0101	Lee Friedman	Seats (Total: 20)	
	Tu 4:00pm - 4:50pm	CHM 1228	

CHEM395 Professional Issues in Chemistry and Biochemistry

Credits: 1 Grading Method: Sat-Fail

Restriction: Junior standing or higher; and must be in one of the following programs (Chemistry; Biochemistry).

Seminar on professional issues. Professional responsibilities, ethics, interview techniques, career opportunities, graduate/professional school, race and gender issues.

0101	Janice Reutt-Robey	Seats (Total: 113)	
	Tu 11:00am - 11:50am	CHM 1402	

CHEM398 Special Projects

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Honors projects for undergraduate students.

Limited to chemistry honors students. Consult with Dr. Montague-Smith.

Contact department for information to register for this course.

CHEM399A Introduction to Chemical Research

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399B Introduction to Chemical Research

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399C Introduction to Chemical Research

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Contact department for information to register for this course.

CHEM399X Introduction to Chemical Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Basic (chemical) research conducted under the supervision of a faculty member.

Prerequisite: permission of department.

0101	Michael Montague-Smith	Seats (Total: 5)
Contact instructor or department for details.		
0102	Lee Friedman	Seats (Total: 30)
Contact instructor or department for details.		

CHEM401 Inorganic Chemistry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM276 or CHEM271; and (CHEM247 or CHEM241).

An overview of basic concepts of the electronic structure of the elements, chemical bonding and reactivity, from simple diatomic molecules to coordination compounds. These are viewed from simple (Lewis) to the most comprehensive molecular orbital theory. Symmetry and group theory are used throughout the course.

0101	Bryan Eichhorn	Seats (Total: 100)
	MWF 12:00pm - 12:50pm	CHE 2110

CHEM425 Instrumental Methods of Analysis

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM272 and CHEM271; or (CHEM276 and CHEM277).

Modern instrumentation in analytical chemistry. Electronics, spectroscopy, chromatography and electrochemistry.

Students must pay a \$40.00 lab materials fee.

0101	Natalia White	Seats (Total: 12)
	MW 11:00am - 11:50am	CHM 1402
	MW 1:00pm - 4:00pm	CHM 3228 Lab
0102	Natalia White	Seats (Total: 12)
	MW 11:00am - 11:50am	CHM 1402
	TuTh 12:30pm - 3:20pm	CHM 3228 Lab
0104	Natalia White	Seats (Total: 12)
	MW 11:00am - 11:50am	CHM 1402
	TuTh 9:30am - 12:20pm	CHM 3228 Lab
0105	Natalia White	Seats (Total: 12)
	MW 11:00am - 11:50am	CHM 1402
	MW 6:00pm - 9:00pm	CHM 3228 Lab
0109	Natalia White	Seats (Total: 12)
	MW 11:00am - 11:50am	CHM 1402
	TuTh 6:00pm - 9:00pm	CHM 3228 Lab

CHEM481 Physical Chemistry I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. And minimum grade of C- in MATH141. And minimum grade of C- in PHYS260 and PHYS261; or minimum grade of C- in PHYS141.

Thermodynamics and kinetics of chemical and molecular systems. Topics may include internal energy, heat, work, enthalpy, entropy, free energy, and spontaneity as well as reaction order, differential rate laws, integrated rate laws, and rate laws for multi-step processes.

0101	Zhihong Nie	Seats (Total: 60)
	MWF 9:00am - 9:50am	CHM 2201

CHEM482 Physical Chemistry II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in CHEM481.

Quantum mechanical nature of atoms and molecules. Topics may include model systems for electronic, vibrational, rotational and translational energies as well as connections to molecular spectroscopy and thermal distributions.

0101	Elizabeth Griffith	Seats (Total: 90)
	MWF 9:00am - 9:50am	CHM 1402

CHEM483 Physical Chemistry Laboratory I

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in CHEM481.

An introduction to the principles and application of quantitative techniques in physical chemical measurements. Experiments will be coordinated with topics in CHEM481.

Students must pay a \$40.00 lab materials fee.

0101	Earle Stone	Seats (Total: 12)
	Tu 8:00am - 8:50am	CHM 1402
	Tu 2:00pm - 4:50pm	CHM 3221 Lab
0102	Earle Stone	Seats (Total: 12)
	Tu 8:00am - 8:50am	CHM 1402
	W 9:00am - 11:50am	CHM 3221 Lab

0103	Earle Stone	Seats (Total: 12)
	Tu 8:00am - 8:50am	CHM 1402
	W 2:00pm - 4:50pm	CHM 3221 Lab
0104	Earle Stone	Seats (Total: 12)
	Tu 8:00am - 8:50am	CHM 1402
	Th 2:00pm - 4:50pm	CHM 3221 Lab

CHEM484

Physical Chemistry Laboratory II

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM481 and CHEM483; and must have completed or be concurrently enrolled in CHEM482.

A continuation of CHEM 483. Advanced quantitative techniques necessary in physical chemical measurements. Experiments will be coordinated with topics in CHEM 482.

Rooms for second lab times are to be arranged for all sections. Students must pay a \$40.00 lab materials fee.

0101	Earle Stone	Seats (Total: 12)
	M 10:00am - 10:50am	CHM 1224
	Tu 3:00pm - 5:50pm	CHM 3225 Lab
0102	Earle Stone	Seats (Total: 12)
	M 10:00am - 10:50am	CHM 1224
	W 10:00am - 12:50pm	CHM 3225 Lab
0103	Earle Stone	Seats (Total: 12)
	M 10:00am - 10:50am	CHM 1224
	W 3:00pm - 5:50pm	CHM 3225 Lab

CHEM602

Advanced Inorganic Chemistry II

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CHEM601; or permission of instructor.

A continuation of CHEM 601 with emphasis on the application of contemporary spectroscopic techniques to inorganic problems.

0101	Efrain Rodriguez	Seats (Total: 15)
	TuTh 9:30am - 10:45am	CHE 2116

CHEM608P Selected Topics in Inorganic Chemistry; Polymer Chemistry

Credits: 3 Grading Method: Regular,
 Audit

Topics of special interest and current importance.

0101	Lawrence Sita	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	CHM 1228

CHEM608V Selected Topics in Inorganic Chemistry; Organomettallic Chem

Credits: 1-3 Grading Method: Regular,
 Audit

Topics of special interest and current importance.

0101	Andrei Vedernikov	Seats (Total: 20)
	MWF 10:00am - 10:50am	CHM 1228

CHEM623 Optical Methods of Quantitative Analysis

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.

The quantitative applications of various methods of optical spectroscopy.

0101	Neil Blough	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	CHM 1228

CHEM647 Organic Synthesis

Credits: 3 Grading Method: Regular,
 Audit

The use of new reagents in organic reactions; multistep syntheses leading to natural products of biological interest; stereospecific and regiospecific reactions and their use in total synthesis.

0101	Philip DeShong	Seats (Total: 20)
	MWF 9:00am - 9:50am	CHM 1228

CHEM648E Special Topics in Organic Chemistry; Ethics in Scientific Research

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Topics of special interest and current importance.

Prerequisite: Completion of one year of graduate study and permission of instructor. Also offered as BIOL600, NACS600, and PSYC788B. Credit granted for BIOL600, NACS600, PSYC788B, or CHEM648E. Issues of scientific integrity with emphasis on investigators in the laboratory sciences, including mentoring, scientific record keeping, authorship and peer review, ownership of data, use of animals and humans in research, and conflict of interest.

0101	Robert Dooling	Seats (Total: 20)
	W 3:00pm - 5:00pm	BPS 1208

CHEM650 Problems in Organic Synthesis

Credits: 1 Grading Method: Regular,
Audit

A tutorial type course dealing with mechanistic problems from the current literature of organic synthesis.

0101	Jeffery Davis	Seats (Total: 40)
	F 12:00pm - 12:50pm	CHM 2201

CHEM687 Statistical Mechanics and Chemistry

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CHEM684; or students who have taken courses with comparable content may contact the department.

0101	John Weeks	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CHM 1228

CHEM688C Selected Topics in Physical Chemistry; Numerical Computation in Chemistry using MATLAB

Credits: 2 Grading Method: Regular,
Audit

Hands-on experience with MOLPRO and ADF programs will explore the foundations of computational chemistry (molecular mechanics, semi-empirical methods, ab initio electronic structure, and density functional theory) with emphasis on using, and the advantages and disadvantages of different methods. Prerequisite: MATH141 and CHEM482. Familiarity with linear algebra, script-based computer programming, and use of UNIX command line interface will be helpful.

0101	Jacek Klos	Seats (Total: 12)
	MW 9:00am - 9:50am	CHM 0119

CHEM689B Special Topics in Physical Chemistry

Credits: 3 Grading Method: Regular,
 Audit

0101	Zhihong Nie	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	Location: TBA

CHEM691 Quantum Chemistry II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: CHEM690 or PHYS622.

0101	Millard Alexander	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	CHM 1228

CHEM699 Special Problems in Chemistry

Credits: 1-6 Grading Method: Regular,
 Audit

Laboratory experience in a research environment.

Open only to non-thesis Master's degree candidates.

Contact department for information to register for this course.

CHEM703 Introduction to Nonequilibrium Statistical Physics

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PHYS603 or CHEM687; or permission of instructor. Credit only granted for: CHPH703, CHPH718B, CHEM703, CHEM718B, PHYS703, OR PHYS798Z. Formerly: CHEM718B.

Analysis and microscopic modeling of systems away from thermal equilibrium. Linear response theory, ergodicity, Brownian motion, Monte Carlo modeling, thermal ratchets, far-from-equilibrium fluctuation relations. Introduction to the theoretical tools of nonequilibrium phenomena and their application to problems in physics, chemistry and biology.

0101	Christopher Jarzynski	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 1122

CHEM705 Nuclear Chemistry

Credits: 3 Grading Method: Regular,
Audit

Nuclear structure models, radioactive decay processes, nuclear reactions in complex nuclei, fission, nucleosynthesis and nuclear particle accelerators.

0101	Alice Mignerey	Seats (Total: 15)
	MW 4:00pm - 5:15pm	CHM 1228

CHEM799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

CHEM889A Seminar; Analytical, Nuclear and Environmental Chemistry

Credits: 1 Grading Method: Regular,
Audit

0101	Instructor: TBA	Seats (Total: 25)
	F 3:00pm - 5:00pm	CHM 1224

CHEM889C Seminar; Inorganic Chemistry

Credits: 1 Grading Method: Regular,
Audit

0101	Andrei Vedernikov	Seats (Total: 15)
	Th 11:00am - 11:50am	Location: TBA

CHEM889D Seminar; Organic Chemistry

Credits: 1 Grading Method: Regular,
Audit

0101	Andrei Vedernikov	Seats (Total: 25)
	Th 11:00am - 11:50am	Location: TBA

CHEM889E Seminar; Physical Chemistry

Credits: 1 Grading Method: Regular,
Audit

Also offered as CHEM889F and CHPH709A. Credit granted for CHEM889E, CHEM889F, or CHPH709A.

0101	John Fourkas	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 1224

CHEM889F Seminar; Chemical Physics

Credits: 1 Grading Method: Regular,
Audit

Also offered as CHEM889E and CHPH709A. Credit granted for CHEM889F, CHEM 889E, or CHPH709A.

0101	John Fourkas	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 1224

CHEM889G Seminar; Physical Organic Chemistry

Credits: 1 Grading Method: Regular,
Audit

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

CHEM889M Seminar; Materials Chemistry

Credits: 1 Grading Method: Regular,
Audit

Contact department for information to register for this course.

CHEM898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHEM899**Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

CHIN**Chinese****Spring 2016**

CHIN102**Elementary Spoken Chinese**

(Perm req)

Credits: 3

Grading Method: Regular

*Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score.**Corequisite: CHIN103. Additional information: Must be taken in conjunction with CHIN 103.**Continued study of grammatical patterns and vocabulary buildup with particular emphasis on conversation.*

0101	Mei Kong	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 1117
0201	Mei Kong	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	JMZ 1103

CHIN103**Elementary Written Chinese**

(Perm req)

Credits: 3

Grading Method: Regular

*Prerequisite: CHIN101; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score.**Corequisite: CHIN102. Additional information: Must be taken in conjunction with CHIN102.**Continued study of grammatical patterns and buildup of vocabulary with particular emphasis on reading and writing.*

0101	Jungjung Lee-Heitz	Seats (Total: 15)
	TuTh 9:30am - 10:45am	JMZ 2120
0201	Jungjung Lee-Heitz	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	JMZ 1117

CHIN169A**Special Topics in Study Abroad I; Elementary Chinese I**

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN169B Special Topics in Study Abroad I; Elementary Chinese II

Credits: 3-4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN201 Intermediate Spoken Chinese I

Credits: 3 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: CHIN102; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.

Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.

Contact department for information to register for this course.

CHIN202 Intermediate Written Chinese I

Credits: 3 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: CHIN103; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.

Reading and writing skills with emphasis on grammar and Chinese characters.

Contact department for information to register for this course.

CHIN203 Intermediate Spoken Chinese II

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.

Continuation of CHIN201.

0101	Mei Kong	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 1117

0201	Mei Kong	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	JMZ 2123

CHIN204 Intermediate Written Chinese II

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department; or must have attained appropriate Foreign Language Placement Test (FLPT) score.

Corequisite: CHIN203. Additional information: Must be taken in conjunction with CHIN203.

Continuation of CHIN202.

0101	Jungjung Lee-Heitz	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 2120
0201	Jungjung Lee-Heitz	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 1117

CHIN205 Intermediate Chinese - Accelerated Track

(Perm req)

Credits: 3 Grading Method: Regular CORE: HO General Education: DSHU

Prerequisite: Must have attained appropriate Foreign Language Placement Test (FLPT) score.

Restriction: Must not have completed CHIN201, CHIN203, CHIN202, or CHIN204.

Accelerated instruction in Mandarin Chinese at the intermediate level for students with prior Chinese language background, either through home use or formal instruction.

0101	Guiling Hu	Seats (Total: 15)
	MWF 2:00pm - 2:50pm	JMZ 3120

CHIN213 Chinese Poetry into English: An Introduction

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU

Issues in the intercultural and interlingual interpretation of foreign literature through the study of Western translations of and scholarship on selected Chinese poets. No knowledge of Chinese required.

0101	Andrew Schonebaum	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 3205

CHIN269C Special Topics in Study Abroad II; Modern Chinese Culture and Society I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269D Special Topics in Study Abroad II; Chinese Conversation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269J Special Topics in Study Abroad II; Intermediate Chinese

Credits: 2-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269K Special Topics in Study Abroad II; Intermediate Chinese II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269P Special Topics in Study Abroad II; The China Phenomenon

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269V Special Topics in Study Abroad II; Chinese Calligraphy I

Credits: 1-2 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269W**Special Topics in Study Abroad II; Chinese Calligraphy II**

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN269Z**Special Topics in Study Abroad II; Modern Chinese Culture and Society**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN301**Advanced Chinese I**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in expository and fictional writing with conversation and composition.

Contact department for information to register for this course.

CHIN302**Advanced Chinese II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN301; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Continuation of CHIN301.

0101	Guiling Hu	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 3203

CHIN306**Life in China through TV Plays II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN305; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Continuation of CHIN305 using authentic Chinese language material in TV plays to learn about society and life in China.

0101	Yuli Wang	Seats (Total: 15)
	MWF 12:00pm - 12:50pm	JMZ 1103

CHIN318

Chinese Film and Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit, D General Education: DSHU

How do Chinese films between the two fin-de-siecles create the spectacle of 'China', narrate its history, and represent its increasingly diversified cultural landscapes? This course will examine the cinemas of China, Taiwan, and Hong Kong in light of a number of cultural-historical topics.

This course surveys the history of Chinese cinema from the 1920s to the present. Covering mainland China, Hong Kong, and Taiwan, this course introduces students to major works of Chinese cinema as well as basic skills for analyzing and interpreting the film. Topics include: global cinema and Chineseness, birth of female stardom, film and revolutionary politics, commercialism, and documentary. All films are subtitled. Taught in English.

0101	Satoru Hashimoto	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 2206

CHIN332

Chinese Culture through Traditional Chinese Arts

Credits: 3 Grading Method: Regular, Pass-Fail

Hands-on experience in calligraphy, music, painting, and Tai Chi coupled with critical reading of scholarly and literary texts. Facilitates an understanding of China and Chinese culture through traditional Chinese arts. Taught in English.

Taught in English.

0101	Yuli Wang	Seats (Total: 25)
	W 2:00pm - 4:30pm	JMZ 0205

CHIN369A

Special Topics in Study Abroad III; China Practicum and Connecting Across Cultures

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369B

Special Topics in Study Abroad III; Advanced Chinese I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369C Special Topics in Study Abroad III; Advanced Chinese II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369D Special Topics in Study Abroad III; Advanced Chinese III

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369E Special Topics in Study Abroad III; Advanced Chinese IV

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369F Special Topics in Study Abroad III; Advanced Chinese V

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369G Special Topics in Study Abroad III; Advanced Chinese VI

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369I Special Topics in Study Abroad III; Advanced Chinese VII

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369J Special Topics in Study Abroad III; Advanced Chinese VIII

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN369M Special Topics in Study Abroad III; Modern Chinese Culture II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CHIN386 Experiential Learning
(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have learning proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

CHIN401 Readings in Modern Chinese I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHIN302; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Readings in history, politics, economics, sociology, and literature. Emphasis on wide-ranging, rapid reading, reinforced by conversations and compositions.

Contact department for information to register for this course.

CHIN402 Readings in Modern Chinese II
(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CHIN401; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.

Continuation of CHIN401.

0101	Guiling Hu	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	JMZ 3120

CHIN418F Special Topics in Contemporary Chinese Fiction and Film; Literature and the City

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Various approaches to the most recent textual productions of China and Taiwan. Taught in Chinese.

Surveys contemporary Chinese literature that engages with the rapidly changing urban cultures of Chinese and Sinophone communities. Beijing, Shanghai, Hong Kong, Taipei, and American Chinatowns will be the focus of this course. Discussion in Chinese.

0101	Satoru Hashimoto	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	JMZ 0208

CHIN429E Selected Topics in Chinese Studies; Ethnicity and Diversity in China

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of a particular aspect of Chinese cultural, linguistic, literary studies. Specific topic to be announced when course is offered. Taught in English.

Taught in English. Examines the evolution of the People's Republic of China's (PRC) ethnic policies over the last six decades. It studies how the PRC has categorized the Chinese people into 56 ethnic groups, how affirmative action policies are made to accommodate ethnic diversity, and what problems the PRC's approach has experienced and what solutions it has proposed in its accommodation of ethnicity and diversity in the 21st century.

0101	Minglang Zhou	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 2206

CHIN441 Traditional Chinese Fiction

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Major works of fiction from the 4th century tales of the marvelous through the 19th century Qing novel. Readings are in classical Chinese and English. Designed for students with advanced language skills. Taught in English.

0101	Andrew Schonebaum	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 1120

CHIN499 Directed Study in Chinese

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHIN499A Directed Study in Chinese; Advanced Chinese V

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHIN499C Directed Study in Chinese; Advanced Chinese VI

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Readings in Chinese under faculty supervision.

Contact department for information to register for this course.

CHPH Chemical Physics **Spring 2016**

CHPH618 Special Projects in Chemical Physics

Credits: 2 Grading Method: Regular,
Audit

Independent reading and study covering chemical physics subject areas not available in other courses.

0101	Eun-Suk Seo	Seats (Total: 10)
	Contact instructor or department for details.	

CHPH703 Introduction to Nonequilibrium Statistical Physics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS603 or CHEM687; or permission of instructor. Credit only granted for: CHPH703, CHPH718B, CHEM703, CHEM718B, PHYS703, or PHYS798Z. Formerly: CHPH718B.

Analysis and microscopic modeling of systems away from thermal equilibrium. Linear response theory, ergodicity, Brownian motion, Monte Carlo modeling, thermal ratchets, far-from-equilibrium fluctuation relations. Introduction to the theoretical tools of nonequilibrium phenomena and their application to problems in physics, chemistry and biology.

0101	Christopher Jarzynski	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 1122

CHPH709A Seminar in Chemical Physics; Physical Chemistry

Credits: 1 Grading Method: Regular,
 Audit

Current research and developments in chemical physics.

Also offered as CHEM 889E and CHEM 889F. Credit granted for CHPH709A, CHEM889E, or CHEM889F.

0101	John Fourkas	Seats (Total: 15)
	W 11:00am - 11:50am	CHM 1224

CHPH709B Seminar in Chemical Physics; Statistical Physics

Credits: 1 Grading Method: Regular,
 Audit

Current research and developments in chemical physics.

Also offered as PHYS709. Credit granted for PHYS709 or CHPH709B.

0101	Instructor: TBA	Seats (Total: 30)
	Tu 1:15pm - 2:30pm	IPT 1116

CHPH709L Seminar in Chemical Physics; Biophysics

Credits: 1 Grading Method: Regular,
 Audit

Current research and developments in chemical physics.

Also offered as PHYS798L. Credit granted for PHYS798L or CHPH709L.

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	PHY 0405

CHPH718A Special Topics in Chemical Physics; Current Topics in Surface Physics

Credits: 2 Grading Method: Regular,
 Audit

A discussion of current research problems in chemical physics.

Also offered as PHYS838A. Credit granted for CHPH718A or PHYS838A.

0101	Theodore Einstein, William Cullen	Seats (Total: 3)
	M 12:00pm - 1:00pm	PHY 0405
	F 3:00pm - 5:00pm	PHY 1204

CHPH718F Special Topics in Chemical Physics; Methods of Statistical Physics

Credits: 3 Grading Method: Regular,
 Audit

A discussion of current research problems in chemical physics.

Prerequisite: PHYS414 or equivalent. Credit granted for PHYS602 or PHYS603. Foundations and applications of thermodynamics and statistical mechanics. Advanced special students require department authorization. Also offered as PHYS603.

0101	Paulo Bedaque	Seats (Total: 49)
	TuTh 9:30am - 10:45am	PHY 1201

CHPH718I Special Topics in Chemical Physics; Independent Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
 Audit

A discussion of current research problems in chemical physics.

Contact department for information to register for this course.

CHPH718Z Special Topics in Chemical Physics; Biosensor Techniques

Credits: 3 Grading Method: Regular,
 Audit

A discussion of current research problems in chemical physics.

Also offered as BIOE631. Credit granted BIOE631, BIOE689Z, or CHPH718Z.

0101	Ian White	Seats (Total: 20)
	MW 11:00am - 12:15pm	CHM 1228
BI01	Ian White	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

CHPH799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CHPH898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CHPH899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CLAS Classics **Spring 2016**

CLAS169M Special Topics in Study Abroad I; Myths and Legends

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

CLAS170 Greek and Roman Mythology

Credits: 3 Grading Method: Regular, CORE: HL General Education: DSHU
Pass-Fail, Audit

Also offered as: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This course is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Francisco Barrenechea MW 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 25) MMH 1400 SQH 1119	Discussion
0102	Francisco Barrenechea MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 25) MMH 1400 EGR 3102	Discussion
0103	Francisco Barrenechea MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 SQH 1119	Discussion
0104	Francisco Barrenechea MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 WDS 1130	Discussion
0105	Francisco Barrenechea MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 25) MMH 1400 ASY 3221	Discussion
0201	Francisco Barrenechea MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) MMH 1400 EGR 0135	Discussion
0202	Francisco Barrenechea MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 25) MMH 1400 PHY 1402	Discussion
0203	Francisco Barrenechea MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 KEY 0116	Discussion
0204	Francisco Barrenechea MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 WDS 1130	Discussion
0205	Francisco Barrenechea MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 25) MMH 1400 PLS 1117	Discussion

0206	Francisco Barrenechea	Seats (Total: 25)	
	MW 11:00am - 11:50am	MMH 1400	
	F 1:00pm - 1:50pm	SKN 1112	Discussion
0207	Francisco Barrenechea	Seats (Total: 25)	
	MW 11:00am - 11:50am	MMH 1400	
	F 1:00pm - 1:50pm	KEY 0121	Discussion

CLAS171 **Classical Myths in Europe**

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

The role which Classical Myths have played in the arts, architecture and politics of a major European city. This will only be offered through the study abroad program.

France

Contact department for information to register for this course.

CLAS180 **Discovering the World of Ancient Greece**

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DSHU

An exploration of the cultural traits and developments of ancient Greek civilization and its forerunners, from the Bronze Age Mycenaeans and Minoans, through the rise of the classical Greek city-states, to the expansion of Greek cultural influence in the wake of the conquests of Alexander the Great. Drawing upon the evidence of the archaeological remains as well as ancient historical and literary documents, students gain a basic familiarity with the principal monuments and artifacts of classical Greek civilization, the various institutions and values that characterized the Greeks, and the significant historical events that transformed the culture over the course of antiquity.

0101	Jorge Bravo	Seats (Total: 35)
	MWF 2:00pm - 2:50pm	ITV 1100

CLAS289A **Are We Rome?**

Credits: 3 Grading Method: Regular, CORE: SH General Education: DSHS,
Pass-Fail, Audit DSHU, SCIS

America, from its very origins as an independent nation, saw itself as the new Rome: our system of government is built on Roman precedents, our national buildings look as if they came from the Roman Forum, and our leisure activities take us to stadiums modeled on the Colosseum. Our relationship to Rome, however, raises our greatest anxiety: will America fall as Rome did? In 1776, the year of American independence, Edward Gibbon published his History of the Decline and Fall of the Roman Empire ; America has been thinking about the trajectory of our history alongside Rome's from the very beginning.

0101	Eric Adler	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	TYD 2109	
	F 11:00am - 11:50am	BPS 1232	Discussion
0102	Eric Adler	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	TYD 2109	
	F 12:00pm - 12:50pm	BPS 1234	Discussion
0103	Eric Adler	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	TYD 2109	
	F 1:00pm - 1:50pm	BPS 1234	Discussion

CLAS331 Roman Religion: From Jupiter to Jesus

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS, DSHU

Formerly: CLAS309J.

Survey of the major institutions of Roman state and private religion and of the diverse religions, including Judaism and Christianity, practiced in the Roman empire.

0101	Morgan Palmer	Seats (Total: 35)	
	TuTh 2:00pm - 3:15pm	TYD 2108	

CLAS499 Independent Study in Classical Languages and Literatures

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLAS499P Independent Study in Classical Languages and Literatures; Classical Myth in Europe

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

CLFS001 Life Science Assessment Test

Credits: 0 Grading Method: Regular,
Pass-Fail, Audit

Restricted to students in the CLFS program.

Click here for more information.

Contact department for information to register for this course.

CLFS520 Concepts of Modern Chemistry

Credits: 3 Grading Method: Regular

Basic concepts and recent advances in the chemical sciences. It is designed to be a review of the first two years of college chemistry for the student pursuing the Master of Life Science degree with a concentration in chemistry. Also includes material preparatory for LFSC courses such as LFSC 690 and LFSC 655. A basic text supplemented by on line text, problems and links. (Not acceptable for credit towards a degree).

Restricted to students in the CLFS program.

Click here for more information.

PL01	Michelle Brooks	Seats (Total: 15)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE

CLFS608 Seminar in Current Topics in Chemical and Life Science; Scholarly Paper

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A Seminar in Current Topics in Chemical and Life Science; Independent Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS619D Special Topics in Chemistry; Forensic Chemistry

Credits: 3 Grading Method: Regular,
 Audit

Topics of current interest and special importance.

Restricted to students in the CLFS program.

PL01	Michelle Brooks	Seats (Total: 24)
Meets February 29, 2016 - May 20, 2016		
	Class time/details on ELMs	ONLINE

CLFS620 Modern Molecular Genetics

Credits: 3 Grading Method: Regular,
 Audit

An overview of genetics including the genetic basis/components in prevalent diseases, genetically engineered organisms and foods, the importance of knowing the complete DNA sequence of organisms.

Restricted to students in the CLFS program.

[Click here for more information.](#)

PL01	Paul Bottino	Seats (Total: 21)
Meets February 29, 2016 - May 20, 2016		
	Class time/details on ELMs	ONLINE

CLFS665 Ecology and Global Change

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: LFSC609C or LFSC665. Formerly: LFSC609C.

Ecological concepts across scales ranging from the individual, to populations, communities, ecosystems, and landscapes will be presented. Global change issues will encompass alteration of atmospheric trace gases, biogeochemistry cycles, land use changes, and introduction of non-native species to new habitats.

PL01	Marcia Shofner	Seats (Total: 22)
	Meets February 29, 2016 - May 20, 2016	
	Class time/details on ELMs	ONLINE
	<i>Restricted to CLFS Major.</i>	

CLFS690 Biochemistry

Credits: 3 Grading Method: Regular,
Audit

An advanced overview of general biochemistry including a study of protein structure and their physical properties; how these properties relate to catalysis, regulation of catalysis and metabolic chemistry with respect to their relationship to physiological conditions.

Restricted to students in the CLFS program.

[Click here for more information.](#)

PL01	David Jollie	Seats (Total: 24)
	Meets February 29, 2016 - May 20, 2016	
	Contact instructor or department for details.	

CMLT Comparative Literature Spring 2016

CMLT235 Black Diaspora Literature and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL, D General Education: DSHU,
DVUP

Credit only granted for: CMLT235 or ENGL235.

Examination of key works by writers of the African Diaspora. Relationship among black people across multiple geographic spaces; Africa, the Caribbean, the United States, Europe, Latin America, and Asia. Specific historical, cultural, and literary contexts; themes such as gender, sexuality, migration, slavery, freedom, and equality. Readings may include literary texts (fiction, poetry, drama), music and film. All readings in English, but drawn from multiple languages of the black diaspora, including English, Spanish, French and Portuguese.

0101	Delisa Hawkes	Seats (Total: 30)
	MWF 2:00pm - 2:50pm	HBK 0108

CMLT242 Introduction to Jewish Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: JWST272. Credit only granted for: HEBR231, JWST272, or CMLT242. Formerly: HEBR231.

A survey of Jewish literature and introduction to methods of reading literature in general and Jewish literature in particular. Concern with what makes a literary corpus Jewish and other issues of canonicity. All texts in English translation.

0101	Adi Mahalel	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	ASY 3211

CMLT270 Global Literature and Social Change

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Comparative study of literature through selected literary works from several non-Western cultures, viewed cross-culturally in light of particular social, political, and economic perspectives.

0201	Nataliya Pratsovyta	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 1107
0301	Collier Cobb	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	HBK 1112

CMLT275 World Literature by Women

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: WMST275. Credit only granted for: CMLT275 or WMST275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0101	Ines Rivera	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	HBK 1112
0201	Sarah Bonnie	Seats (Total: 30)
	MWF 10:00am - 10:50am	TWS 1320

CMLT277 Literatures of the Americas

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Comparative study of several North, South, and Central American culture with a focus on the specificities, similarities, and divergences of their literary and cultural texts.

Contact department for information to register for this course.

CMLT280

Film Art in a Global Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA, D General Education: DSHU,
DVUP

Comparative study of a variety of film traditions from around the world including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.

0101	Steve Beaulieu	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	PLS 1117
0201	Manon Soulet	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	ASY 3215

CMLT386

Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-English department.

Contact department for information to register for this course.

CMLT398B

Special Topics in Comparative Studies; Self and Other in Israeli Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in comparative studies.

Also offered as ISRL349Q, HEBR498Q and JWST319Q. Credit granted for ISRL349Q, CMLT398B, HEBR498Q, or JWST319Q. People representing many different faiths, ethnicities, languages, and cultures populate Modern Israel. Nevertheless, Jews of European origins have dominated the state's political and cultural climate. Through an exploration of literature and film, we will explore the ways in which the sense of the "self" is constructed and the ways in which the "other" is imagined in Israeli culture. "Others" include Palestinians, Sephardim, Mizrahim, non-Zionists, Women, Eastern Europeans who do not relinquish their ties to the past, as well as individuals who resist the collective ideologies of a modern nation in the making.

0101	Chen Edrei	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0125

CMLT398C Special Topics in Comparative Studies; Cinema of Liberation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in comparative studies.

Also offered as ENGL329A. Credit granted for CMLT398C or ENGL329A. Repeatable to 9 credits if content differs.

0201	Paul Cote	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	TWS 1107	
	Tu 3:30pm - 6:00pm	TWS 1107	Lab

CMLT398D Special Topics in Comparative Studies; The Jazz Paradigm

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in comparative studies.

Also offered as ENGL379R. Credit granted for CMLT398D or ENGL379R.

0101	Eugene Robinson	Seats (Total: 25)	
	Class time/details on ELMs	ONLINE	

CMLT398R Special Topics in Comparative Studies; The Jewish Graphic Novel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in comparative studies.

Also offered as JWST319R and ENGL379D. Credit granted for JWST319R, ENGL379D, or CMLT398R. We will explore the boom in contemporary Jewish graphic novels from all over the world. What defines a Jewish graphic novel? What does a graphic novel accomplish that a conventional novel does not? Can a graphic novel tackle serious issues within the Jewish community, issues such as trauma , sexuality, gender relations, class, and nationalism? We will read the works of Art Spiegelman, Rutu Modan, Leela Corman, Harvey Pekar, and others.

0101	Sheila Jelen, Eric Zakim	Seats (Total: 40)	
	TuTh 9:30am - 10:45am	TWS 0236	

CMLT699 Independent Study

(Perm req) Credits: 1-6 Grading Method: Regular

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member.

Contact department for information to register for this course.

CMLT702

Cultures of Theory

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed an introductory course in critical theory. Also offered as: ENGL702. Credit only granted for: CMLT702 or ENGL702.

An exploration of the socio-historic, material, and cultural contexts of various theoretical practices and traditions.

0101	Luka Arsenjuk, Oliver Gaycken	Seats (Total: 11)
	W 6:30pm - 9:00pm	TWS 3248

CMLT788M

Practicum in Comparative Studies; Orientation in Film Theory: Post-Cinema

Credits: 1 Grading Method: Sat-Fail

Practical professional training for individuals and groups of students in supervised settings.

The colloquium will meet Fridays from 2-4pm on 1/29, 2/12, 2/26, 4/08, and 4/29 in 3132 Tawes Hall. Topics addressed include: the advent of the digital and the question of medium specificity, the supposed death of cinema and its afterlife, and the rise of globalized genres and modes of film production. Also offered as CMLT788M. Credit granted for SLLC698M or CMLT788M.

0101	Mauro Resmini	Seats (Total: 12)
	Meets January 29, 2016 - April 29, 2016	
	Contact instructor or department for details.	

CMLT799

Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

CMLT898

Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

CMLT899

Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

CMSC122 Introduction to Computer Programming via the Web

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: IE General Education: DSSP

Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: CMSC122 or CMSC198N. Formerly: CMSC198N.

Introduction to computer programming in the context of developing full featured dynamic web sites. Uses a problem solving approach to teach basics of program design and implementation using JavaScript; relates these skills to creation of dynamic web sites; then explores both the potential and limits of web-based information sources for use in research. Intended to help relate a student's major to these emerging technologies.

0101	Ioana Bercea, Pedram Sadeghian MWF 12:00pm - 12:50pm	Seats (Total: 75) CSI 3117
0201	Ioana Bercea, Pedram Sadeghian MWF 1:00pm - 1:50pm	Seats (Total: 75) CSI 3117
0301	Ioana Bercea, Pedram Sadeghian MWF 2:00pm - 2:50pm	Seats (Total: 75) CSI 3117

CMSC131 Object-Oriented Programming I

(Perm req)

Credits: 4 Grading Method: Regular

Corequisite: MATH140; and permission of CMNS-Computer Science department.

Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.

0101	Fawzi Emad MWF 1:00pm - 1:50pm MW 8:00am - 8:50am	Seats (Total: 32) CSI 1115 CSI 2118 Discussion
0102	Fawzi Emad MWF 1:00pm - 1:50pm MW 9:00am - 9:50am	Seats (Total: 32) CSI 1115 CSI 2118 Discussion

0103	Fawzi Emad MWF 1:00pm - 1:50pm MW 10:00am - 10:50am	Seats (Total: 40) CSI 1115 CSI 2120	Discussion
0104	Fawzi Emad MWF 1:00pm - 1:50pm MW 11:00am - 11:50am	Seats (Total: 40) CSI 1115 CSI 2120	Discussion
0201	Fawzi Emad MWF 2:00pm - 2:50pm MW 8:00am - 8:50am	Seats (Total: 40) CSI 1115 CSI 2120	Discussion
0202	Fawzi Emad MWF 2:00pm - 2:50pm MW 9:00am - 9:50am	Seats (Total: 40) CSI 1115 CSI 2120	Discussion
0203	Fawzi Emad MWF 2:00pm - 2:50pm MW 10:00am - 10:50am	Seats (Total: 32) CSI 1115 CSI 2118	Discussion
0204	Fawzi Emad MWF 2:00pm - 2:50pm MW 11:00am - 11:50am	Seats (Total: 32) CSI 1115 CSI 2118	Discussion
0301	Fawzi Emad MWF 3:00pm - 3:50pm MW 12:00pm - 12:50pm	Seats (Total: 32) CSI 1115 CSI 2118	Discussion
0302	Fawzi Emad MWF 3:00pm - 3:50pm MW 12:00pm - 12:50pm	Seats (Total: 40) CSI 1115 CSI 2120	Discussion
0303	Fawzi Emad MWF 3:00pm - 3:50pm MW 1:00pm - 1:50pm	Seats (Total: 32) CSI 1115 CSI 2118	Discussion
0304	Fawzi Emad MWF 3:00pm - 3:50pm MW 2:00pm - 2:50pm	Seats (Total: 32) CSI 1115 CSI 2118	Discussion

0401	Mihai Pop	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PHY 1410	
	MW 1:00pm - 1:50pm	CSI 2120	Discussion
0402	Mihai Pop	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PHY 1410	
	MW 4:00pm - 4:50pm	CSI 2120	Discussion
0403	Mihai Pop	Seats (Total: 32)	
	MWF 12:00pm - 12:50pm	PHY 1410	
	MW 5:00pm - 5:50pm	CSI 2118	Discussion
0404	Mihai Pop	Seats (Total: 40)	
	MWF 12:00pm - 12:50pm	PHY 1410	
	MW 5:00pm - 5:50pm	CSI 2120	Discussion

CMSC132

(Perm req)

Object-Oriented Programming II

Credits: 4

Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam. Or permission of the department based on satisfactory performance on the department placement exam; and minimum grade of C- in MATH140; and permission of CMNS-Computer Science department.

Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.

0101	Laurence Herman	Seats (Total: 36)	
	MWF 10:00am - 10:50am	CSI 1115	
	MW 11:00am - 11:50am	CSI 2107	Discussion
0102	Laurence Herman	Seats (Total: 36)	
	MWF 10:00am - 10:50am	CSI 1115	
	MW 12:00pm - 12:50pm	CSI 2107	Discussion
0103	Laurence Herman	Seats (Total: 36)	
	MWF 10:00am - 10:50am	CSI 1115	
	MW 1:00pm - 1:50pm	CSI 2107	Discussion

0104	Laurence Herman MWF 10:00am - 10:50am MW 2:00pm - 2:50pm	Seats (Total: 36) CSI 1115 CSI 2107	Discussion
0201	Laurence Herman MWF 11:00am - 11:50am MW 8:00am - 8:50am	Seats (Total: 36) CSI 1115 CSI 3118	Discussion
0202	Laurence Herman MWF 11:00am - 11:50am MW 9:00am - 9:50am	Seats (Total: 36) CSI 1115 CSI 3118	Discussion
0203	Laurence Herman MWF 11:00am - 11:50am MW 10:00am - 10:50am	Seats (Total: 36) CSI 1115 CSI 1122	Discussion
0204	Laurence Herman MWF 11:00am - 11:50am MW 9:00am - 9:50am	Seats (Total: 36) CSI 1115 CSI 1121	Discussion
0301	Laurence Herman MWF 2:00pm - 2:50pm MW 8:00am - 8:50am	Seats (Total: 38) ARM 0126 CSI 2107	Discussion
0302	Laurence Herman MWF 2:00pm - 2:50pm MW 9:00am - 9:50am	Seats (Total: 38) ARM 0126 CSI 2107	Discussion
0303	Laurence Herman MWF 2:00pm - 2:50pm MW 11:00am - 11:50am	Seats (Total: 38) ARM 0126 CSI 1122	Discussion
0304	Laurence Herman MWF 2:00pm - 2:50pm MW 4:00pm - 4:50pm	Seats (Total: 38) ARM 0126 CSI 3117	Discussion
0401	Nelson Padua-Perez MWF 12:00pm - 12:50pm MW 3:00pm - 3:50pm	Seats (Total: 36) CSI 1115 CSI 2107	Discussion

0402	Nelson Padua-Perez	Seats (Total: 36)	
	MWF 12:00pm - 12:50pm	CSI 1115	
	MW 4:00pm - 4:50pm	CSI 2107	Discussion
0403	Nelson Padua-Perez	Seats (Total: 36)	
	MWF 12:00pm - 12:50pm	CSI 1115	
	MW 10:00am - 10:50am	CSI 2107	Discussion
0404	Nelson Padua-Perez	Seats (Total: 36)	
	MWF 12:00pm - 12:50pm	CSI 1115	
	MW 11:00am - 11:50am	CSI 2117	Discussion

CMSC198A Special Topics in Computer Science for Non-Majors

(Perm req)

Credits: 1-4 Grading Method: Regular

A course designed to allow non-computer science majors and non-computer engineering majors to pursue a specialized topic or project.

Contact department for information to register for this course.

CMSC216 Introduction to Computer Systems

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Corequisite: CMSC250. Credit only granted for: CMSC212, (CMSC213 and CMSC313), or CMSC216.

Machine representation of data including integers and floating point. Modern computer architectural features and their interaction with software (registers, caches). Interaction between user programs and the OS: system class, process, and thread management. Optimizing software to improve runtime performance using both compilers and hand turning.

0101	Alan Sussman	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	CSI 1115	
	MW 8:00am - 8:50am	CSI 1122	Discussion
0102	Alan Sussman	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	CSI 1115	
	MW 9:00am - 9:50am	CSI 1122	Discussion
0103	Alan Sussman	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	CSI 1115	
	MW 10:00am - 10:50am	CSI 3118	Discussion

0104	Alan Sussman	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	CSI 1115	
	MW 11:00am - 11:50am	CSI 3118	Discussion
0201	Nelson Padua-Perez	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	CSI 3117	
	MW 12:00pm - 12:50pm	CSI 1122	Discussion
0202	Nelson Padua-Perez	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	CSI 3117	
	MW 1:00pm - 1:50pm	CSI 1122	Discussion
0203	Nelson Padua-Perez	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	CSI 3117	
	MW 3:00pm - 3:50pm	CSI 2118	Discussion
0204	Nelson Padua-Perez	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	CSI 3117	
	MW 4:00pm - 4:50pm	CSI 2118	Discussion
0301	Nelson Padua-Perez	Seats (Total: 34)	
	TuTh 3:30pm - 4:45pm	CSI 1115	
	MW 12:00pm - 12:50pm	CSI 3120	Discussion
0302	Nelson Padua-Perez	Seats (Total: 34)	
	TuTh 3:30pm - 4:45pm	CSI 1115	
	MW 1:00pm - 1:50pm	CSI 3120	Discussion
0303	Nelson Padua-Perez	Seats (Total: 32)	
	TuTh 3:30pm - 4:45pm	CSI 1115	
	MW 3:00pm - 3:50pm	CSI 3118	Discussion
0401	Nelson Padua-Perez	Seats (Total: 34)	
	TuTh 5:00pm - 6:15pm	CSI 1115	
	MW 8:00am - 8:50am	CSI 1121	Discussion
0402	Nelson Padua-Perez	Seats (Total: 34)	
	TuTh 5:00pm - 6:15pm	CSI 1115	
	MW 1:00pm - 1:50pm	CSI 2117	Discussion

0403	Nelson Padua-Perez	Seats (Total: 34)	
	TuTh 5:00pm - 6:15pm	CSI 1115	
	MW 4:00pm - 4:50pm	CSI 3120	Discussion

CMSC250 Discrete Structures

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Permission of CMNS-Computer Science department. Formerly: CMSC150.

Fundamental mathematical concepts related to computer science, including finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.

0101	Thomas Reinhardt	Seats (Total: 40)	
	TuTh 9:30am - 10:45am	CSI 1115	
	MW 10:00am - 10:50am	CSI 3120	Discussion
0102	Thomas Reinhardt	Seats (Total: 40)	
	TuTh 9:30am - 10:45am	CSI 1115	
	MW 11:00am - 11:50am	CSI 3120	Discussion
0103	Thomas Reinhardt	Seats (Total: 32)	
	TuTh 9:30am - 10:45am	CSI 1115	
	MW 12:00pm - 12:50pm	CSI 3118	Discussion
0104	Thomas Reinhardt	Seats (Total: 32)	
	TuTh 9:30am - 10:45am	CSI 1115	
	MW 1:00pm - 1:50pm	CSI 3118	Discussion
0201	Thomas Reinhardt	Seats (Total: 39)	
	TuTh 11:00am - 12:15pm	SKN 0200	
	MW 12:00pm - 12:50pm	CSI 2117	Discussion
0202	Thomas Reinhardt	Seats (Total: 39)	
	TuTh 11:00am - 12:15pm	SKN 0200	
	MW 10:00am - 10:50am	CSI 1121	Discussion
0203	Thomas Reinhardt	Seats (Total: 39)	
	TuTh 11:00am - 12:15pm	SKN 0200	
	MW 11:00am - 11:50am	CSI 1121	Discussion

0204	Thomas Reinhardt	Seats (Total: 39)	
	TuTh 11:00am - 12:15pm	SKN 0200	
	MW 2:00pm - 2:50pm	CSI 1121	Discussion
0205	Thomas Reinhardt	Seats (Total: 30)	
	TuTh 11:00am - 12:15pm	SKN 0200	
	MW 3:00pm - 3:50pm	CSI 2120	Discussion
0301	Thomas Reinhardt	Seats (Total: 36)	
	TuTh 2:00pm - 3:15pm	CSI 1115	
	MW 8:00am - 8:50am	CSI 3120	Discussion
0302	Thomas Reinhardt	Seats (Total: 36)	
	TuTh 2:00pm - 3:15pm	CSI 1115	
	MW 9:00am - 9:50am	CSI 3120	Discussion
0303	Thomas Reinhardt	Seats (Total: 36)	
	TuTh 2:00pm - 3:15pm	CSI 1115	
	MW 2:00pm - 2:50pm	CSI 3120	Discussion
0304	Thomas Reinhardt	Seats (Total: 36)	
	TuTh 2:00pm - 3:15pm	CSI 1115	
	MW 3:00pm - 3:50pm	CSI 3120	Discussion

CMSC289J Computational Approaches in Language Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as LING499J and MLSC410. Credit granted for LING499J, MLSC410, or CMSC289J. Interdisciplinary survey of areas of language science where computational methods play a major role. Topics include natural language processing, automatic speech recognition, models of human language processing, and models of human language disorders. Students are expected to have previously taken at least two courses in either language science or computer science, but need not have background in both.

0101	Naomi Feldman	Seats (Total: 12)	
	TuTh 9:30am - 10:45am	JMZ 3120	

CMSC298A Special Topics in Computer Science

(Perm req) Credits: 1-4 Grading Method: Sat-Fail

A course designed to allow a lower level student to pursue a specialize topic or project.

Contact department for information to register for this course.

CMSC320 Introduction to Data Science

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department.

An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.

0101	Hector Corrada Bravo	Seats (Total: 50)
	TuTh 2:00pm - 3:15pm	CSI 1121

CMSC330 Organization of Programming Languages

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department.

The semantics of programming languages and their run-time organization. Several different models of languages are discussed, including procedural (e.g., C, Pascal), functional (e.g., ML, LISP), rule-based (e.g., Prolog), and object-oriented (e.g., C++, Smalltalk). Run-time structures, including dynamic versus static scope rules, storage for strings, arrays, records, and object inheritance are explored.

0101	Niwaer Ai	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 2117
	F 10:00am - 10:50am	CSI 2120 Discussion
0102	Niwaer Ai	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 2117
	F 11:00am - 11:50am	CSI 2120 Discussion
0103	Niwaer Ai	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 2117
	F 12:00pm - 12:50pm	CSI 2120 Discussion

0201	Niwaer Ai	Seats (Total: 36)	
	TuTh 12:30pm - 1:45pm	CSI 1115	
	F 2:00pm - 2:50pm	CSI 2120	Discussion
0202	Niwaer Ai	Seats (Total: 36)	
	TuTh 12:30pm - 1:45pm	CSI 1115	
	F 3:00pm - 3:50pm	CSI 2120	Discussion
0203	Niwaer Ai	Seats (Total: 36)	
	TuTh 12:30pm - 1:45pm	CSI 1115	
	F 10:00am - 10:50am	CSI 3120	Discussion
0204	Niwaer Ai	Seats (Total: 36)	
	TuTh 12:30pm - 1:45pm	CSI 1115	
	F 11:00am - 11:50am	CSI 3120	Discussion
0301	Niwaer Ai	Seats (Total: 36)	
	TuTh 3:30pm - 4:45pm	BPS 1250	
	F 12:00pm - 12:50pm	CSI 3120	Discussion
0302	Niwaer Ai	Seats (Total: 36)	
	TuTh 3:30pm - 4:45pm	BPS 1250	
	F 1:00pm - 1:50pm	CSI 3120	Discussion
0303	Niwaer Ai	Seats (Total: 36)	
	TuTh 3:30pm - 4:45pm	BPS 1250	
	F 2:00pm - 2:50pm	CSI 3120	Discussion
0304	Niwaer Ai	Seats (Total: 36)	
	TuTh 3:30pm - 4:45pm	BPS 1250	
	F 3:00pm - 3:50pm	CSI 3120	Discussion

CMSC351

Algorithms

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department. Credit only granted for: CMSC251 or CMSC351. Additional information: CMSC351 may not count as one of the required upper level CMSC courses for students who are required to have 24 upper level CMSC credits for graduation, i.e. for students who became computer science majors prior to Fall, 2002.

A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.

0101	Clyde Kruskal MWF 9:00am - 9:50am	Seats (Total: 140) CSI 1115
0201	Evan Golub MWF 3:00pm - 3:50pm	Seats (Total: 88) CSI 3117
0301	Evan Golub MWF 4:00pm - 4:50pm	Seats (Total: 140) CSI 1115

CMSC390**Honors Paper**

(Perm req)

Credits: 3 Grading Method: Regular

*Restriction: Must be admitted to the Computer Science Honors Program.**Special study or research directed toward preparation of honors paper.***Contact department for information to register for this course.**

CMSC396H**Computer Science Honors Seminar**

(Perm req)

Credits: 1 Grading Method: Regular

*Prerequisite: Must have admission into Computer Science Departmental Honors Program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC297 or CMSC396. Formerly: CMSC297.**Overview of computer science research activities, techniques, and tools. Diverse research areas will be covered, including systems, networks, artificial intelligence, human-computer interaction, software engineering, graphics, vision, and theory.*

0101	David Levin W 1:00pm - 1:50pm	Seats (Total: 24) AVW 3258
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CMSC411**Computer Systems Architecture**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.

0101	Michelle Hugue	Seats (Total: 50)
	MW 2:00pm - 3:15pm	CSI 1122
0201	Michelle Hugue	Seats (Total: 50)
	MW 3:30pm - 4:45pm	CSI 1122

CMSC412

Operating Systems

(Perm req)

Credits: 4

Grading Method: Regular

CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (CMSC414, CMSC417, CMSC420, CMSC430, CMSC433). Restriction: Permission of CMNS-Computer Science department; or must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)).

A hands-on introduction to operating systems, including topics in: multiprogramming, communication and synchronization, memory management, IO subsystems, and resource scheduling policies. The laboratory component consists of constructing a small kernel, including functions for device IO, multi-tasking, and memory management.

0101	Jeffrey Hollingsworth	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSI 1121
	MW 12:00pm - 12:50pm	CSI 1121 Discussion
0102	Jeffrey Hollingsworth	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CSI 1121
	MW 1:00pm - 1:50pm	CSI 1121 Discussion

CMSC414

Computer and Network Security

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to the topic of security in the context of computer systems and networks. Identify, analyze, and solve network-related security problems in computer systems. Fundamentals of number theory, authentication, and encryption technologies, as well as the practical problems that have to be solved in order to make those technologies workable in a networked environment, particularly in the wide-area Internet environment.

0101	David Levin	Seats (Total: 85)
	TuTh 3:30pm - 4:45pm	CSI 2117

CMSC417 Computer Networks

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Computer networks and architectures. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, analysis, and testing.

0101	Colin Dixon	Seats (Total: 70)
	MW 5:00pm - 6:15pm	CSI 3117

CMSC420 Data Structures

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Description, properties, and storage allocation of data structures including lists and trees. Algorithms for manipulating structures. Applications from areas such as data processing, information retrieval, symbol manipulation, and operating systems.

0101	Michelle Hugue	Seats (Total: 80)
	TuTh 3:30pm - 4:45pm	CSI 3117
0201	Larry Davis	Seats (Total: 80)
	MW 3:30pm - 4:45pm	CSI 2117

CMSC421 Introduction to Artificial Intelligence

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Areas and issues in artificial intelligence, including search, inference, knowledge representation, learning, vision, natural languages, expert systems, robotics. Implementation and application of programming languages (e.g. LISP, PROLOG, SMALLTALK), programming techniques (e.g. pattern matching, discrimination networks) and control structures (e.g. agendas, data dependencies).

0101	Donald Perlis	Seats (Total: 85)
	MW 2:00pm - 3:15pm	CSI 2117

CMSC422 Introduction to Machine Learning

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Recommended: STAT400.

Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.

0101	Marine Carpuat	Seats (Total: 75)
	TuTh 2:00pm - 3:15pm	CSI 3117

CMSC424 Database Design

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Students are introduced to database systems and motivates the database approach as a mechanism for modeling the real world. An in-depth coverage of the relational model, logical database design, query languages, and other database concepts including query optimization, concurrency control; transaction management, and log based crash recovery. Distributed and Web database architectures are also discussed.

0101	Nicholas Roussopoulos	Seats (Total: 70)
	TuTh 9:30am - 10:45am	CSI 3117

CMSC425 Game Programming

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC420.

An introduction to the principles and practice of computer game programming and design. This includes an introduction to game hardware and systems, the principles of game design, object and terrain modeling, game physics, artificial intelligence for games, networking for games, rendering and animation, and aural rendering. Course topics are reinforced through the design and implementation of a working computer game.

0101	David Mount	Seats (Total: 50)
	TuTh 3:30pm - 4:45pm	CSI 1121

CMSC426 Image Processing

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC420; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

An introduction to basic techniques of analysis and manipulation of pictorial data by computer. Image input/output devices, image processing software, enhancement, segmentation, property measurement, Fourier analysis. Computer encoding, processing, and analysis of curves.

0101	John Aloimonos	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	CSI 1122

CMSC430 Introduction to Compilers

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.

0101	David Van Horn	Seats (Total: 50)
	TuTh 2:00pm - 3:15pm	CSI 1122

CMSC433 Programming Language Technologies and Paradigms

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Programming language technologies (e.g., object-oriented programming), their implementations and use in software design and implementation.

0101	Walter Cleaveland	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	CSI 2117

CMSC434 Introduction to Human-Computer Interaction

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and PSYC100; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Assess usability by quantitative and qualitative methods. Conduct task analyses, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Apply design processes and guidelines to develop professional quality user interfaces. Build low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools such as graphic editors and a graphical programming environment (eg: Visual Basic, Java).

0101	Jon Froehlich	Seats (Total: 48)
	TuTh 11:00am - 12:15pm	CSI 1121

CMSC435 Software Engineering

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (CMSC412, CMSC417, CMSC420, CMSC430, CMSC433); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

State-of-the-art techniques in software design and development. Laboratory experience in applying the techniques covered. Structured design, structured programming, top-down design and development, segmentation and modularization techniques, iterative enhancement, design and code inspection techniques, correctness, and chief-programmer teams. The development of a large software project.

0101	James Purtilo	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	CSI 1121

CMSC436 Programming Handheld Systems

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.

Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.

0101	Charles Song TuTh 5:00pm - 6:15pm	Seats (Total: 75) CSI 2117
0201	Vibha Sazawal TuTh 12:30pm - 1:45pm	Seats (Total: 75) CSI 2117

CMSC451 Design and Analysis of Computer Algorithms

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include sorting, selection, graph algorithms, and basic algorithm design paradigms (such as divide-and-conquer, dynamic programming and greedy algorithms), lower bounds and NP-completeness.

0101	Andrew Childs TuTh 11:00am - 12:15pm	Seats (Total: 75) CSI 2117
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CMSC452 Elementary Theory of Computation

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.

Alternative theoretical models of computation, types of automata, and their relations to formal grammars and languages.

0101	Clyde Kruskal TuTh 9:30am - 10:45am	Seats (Total: 46) CSI 2107
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CMSC456**Cryptology**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: (any two 400-level MATH courses; or (CMSC351 and CMSC330)); and permission of CMNS-Computer Science department. Or must be a CMSC graduate student. Also offered as: MATH456. Credit only granted for: CMSC456 or MATH456.

Importance in protecting data in communications between computers. The subject lies on the border between mathematics and computer science. Mathematical topics include number theory and probability, and computer science topics include complexity theory.

0101	Jonathan Katz	Seats (Total: 70)
	MWF 10:00am - 10:50am	CSI 2117

CMSC460**Computational Methods**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.

0101	Tobias von Petersdorff	Seats (Total: 31)
	MWF 1:00pm - 1:50pm	MTH 0303
0201	Wujun Zhang	Seats (Total: 29)
	TuTh 2:00pm - 3:15pm	MTH 0303
0301	Gil Ariel	Seats (Total: 28)
	TuTh 2:00pm - 3:15pm	MTH 0201

CMSC466**Introduction to Numerical Analysis I**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: MATH240 and MATH241; and (CMSC106 or CMSC131); and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: AMSC466. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.

Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.

0101	Doron Levy	Seats (Total: 32)
	TuTh 2:00pm - 3:15pm	PHY 1219

CMSC474 Introduction to Computational Game Theory

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Credit only granted for: CMSC474, ECON414, GVPT390 or GVPT399A.

Game theory deals with interactions among agents (either human or computerized) whose objectives and preferences may differ from the objectives and preferences of the other agents. It will also provide a comprehensive introduction to game theory, concentrating on its computational aspects.

0101	Dana Nau, Walter Cleaveland	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	CSI 1122

CMSC475 Combinatorics and Graph Theory

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: MATH240 and MATH241; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Also offered as: MATH475.

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

0101	Wiseley Wong	Seats (Total: 32)
	MWF 9:00am - 9:50am	MTH B0421

CMSC498A Selected Topics in Computer Science

(Perm req)

Credits: 1-3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC498F Selected Topics in Computer Science; Robotics and Perception

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. An introduction to the design and programming of robotics systems. The course covers topics in the area of navigation using vision and 3D depth sensors, localization and map making, basic image processing for visual navigation and recognition, and vision and depth based grasping and manipulation. Students will be developing algorithms, and learn how to use current state-of the art vision and software tools, such as OpenCV, MoveIt and the Point Cloud Library. The software components will be developed under the Robotic Operating System (ROS).

0101	Cornelia Fermuller	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 2120

CMSC498J Selected Topics in Computer Science; Social Media Computing

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. In this course, we study social networks by analyzing social relation between users, contents they share, and ways contents and events are propagated through such networks. This helps us to better understand the structure of social networks and uncover the live and emerging social phenomena that will affect communities. Students will dig up new innovative ideas in this context and evaluate them on real world datasets. At the end of this course, students will have hands-on experience on a range of tasks from identifying important nodes to detecting communities and trends in social networks.

0101	Hadi Amiriebrahimabadi	Seats (Total: 46)
	TuTh 11:00am - 12:15pm	CSI 2107

CMSC498R Selected Topics in Computer Science; Introduction to Cryptology

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

0101	Dana Dachman-Soled	Seats (Total: 16)
	TuTh 12:30pm - 1:45pm	CSI 2107

CMSC498W Selected Topics in Computer Science; Introduction to Virtual and Augmented Reality

(Perm req)

Credits: 3 Grading Method: Regular

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Prerequisite: A minimum grade of C- in CMSC420; and permission of CMNS-Computer Science department. An introduction to the principles and practice of virtual and augmented reality. Includes an introduction to the human sensory system, generation of virtual worlds, tracking, registration, stereoscopic displays, rendering latency, interaction, immersion and telepresence. The course will also cover multiple modalities of virtual worlds, including visual, aural, and haptic.

0101	Derek Juba, Amitabh Varshney	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CSI 2120

CMSC499A Independent Undergraduate Research

(Perm req)

Credits: 1-3 Grading Method: Regular

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC661**Scientific Computing II**

Credits: 3 Grading Method: Regular

Prerequisite: Must have knowledge of C or Fortran. And CMSC466, AMSC466, AMSC460, or CMSC460; or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: AMSC661. Credit only granted for: AMSC661 or CMSC661.

Fourier and wavelet transform methods, numerical methods for elliptic partial differential equations, numerical linear algebra for sparse matrices, Finite element methods, numerical methods for time dependent partial differential equations. Techniques for scientific computation with an introduction to the theory and software for each topic. Course is part of a two course sequence (660 and 661), but can be taken independently.

0101	Maria Cameron	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	MTH 1308

CMSC662**Computer Organization and Programming for Scientific Computing**

Credits: 3 Grading Method: Regular

Prerequisite: Must have Knowledge of C or Fortran. And CMSC466, AMSC466, AMSC460, or CMSC460; or (must have knowledge of basic numerical analysis (linear equations, nonlinear equations, integration, interpolation); and permission of instructor). Also offered as: AMSC662. Credit only granted for: AMSC662 or CMSC662.

This course presents fundamentals issues of computer hardware, software parallel computing, and scientific data management for programming for scientific computation.

0101	Ramani Duraiswami	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	CSI 2120

CMSC664**Advanced Scientific Computing II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: CMSC663. Restriction: Permission of instructor. Also offered as: AMSC664. Credit only granted for: AMSC664, or CMSC664.

In the sequence CMSC 663, CMSC 664 students work on a year-long individual project to develop software for a scientific task in a high performance computing environment. Lectures will be given on code development and validation, parallel algorithms for partial differential equations, nonlinear systems, optimization.

0101	Howard Elman	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSI 4122

CMSC702 Computational Systems Biology

Credits: 3 Grading Method: Regular,
 Audit

An introduction to the fundamental concepts in the computational analysis of biological systems with applications to: functional genomics, population genetics, interaction networks, epigenetics. Computational concepts covered: network and graph algorithms, machine learning, large data/network visualization, statistical modeling and inference, probabilistic graphical models, sparse methods in data analysis, numerical optimization. No prior knowledge of biology required.

0101	Zia Khan	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	CSI 3120

CMSC711 Computer Networks

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: CMSC412; or students who have taken courses with comparable content may contact the department.

Principles, design, and performance evaluation of computer networks. Network architectures including the ISO model and local area networks (LANs). Communication protocols and network topology.

0101	Samrat Bhattacharjee	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CSI 2118

CMSC722 Artificial Intelligence Planning

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of CMNS-Computer Science department.

Automated planning of actions to accomplish some desired goals. Basic algorithms, important systems, and new directions in the field of artificial intelligence planning systems.

0101	Dana Nau	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	CSI 2120

Database Management Systems

Restriction: Must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)) ; or permission of instructor; or permission of CMNS-Computer Science department.

0101	Amol Deshpande	Seats (Total: 40)
	MW 3:30pm - 4:45pm	CSI 1121

Machine Learning

Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of instructor.

0101	Hal Daume	Seats (Total: 50)
	TuTh 11:00am - 12:15pm	CSI 1122

Parallel Algorithms

Prerequisite: CMSC451; or students who have taken courses with comparable content may contact the department.

A presentation of the theory of parallel computers and parallel processing. Models of parallel processing and the relationships between these models. Techniques for the design and analysis of efficient parallel algorithms including parallel prefix, searching, sorting, graph problems, and algebraic problems. Theoretical limits of parallelism, inherently sequential problems, and the theory of P-completeness.

0101	Uzi Vishkin	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EGR 0108

CMSC764 **Advanced Numerical Optimization**

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH410; or permission of instructor. Also offered as: AMSC607. Credit only granted for: AMSC607 or CMSC764. Formerly: CMSC878O.

Modern numerical methods for solving unconstrained and constrained nonlinear optimization problems in finite dimensions. Design of computational algorithms and the analysis of their properties.

0101	Thomas Goldstein	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	CSI 3120

CMSC773 **Computational Linguistics II**

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LING723 or CMSC723; or permission of instructor. Also offered as: LING773. Formerly: CMSC828R. Additional information: May only receive PhD Comp. credit for CMSC723 or CMSC823, not both.

Natural language processing with a focus on corpus-based statistical techniques. Topics include: stochastic language modeling, smoothing, noisy channel models, probabilistic grammars and parsing; lexical acquisition, similarity-based methods, word sense disambiguation, statistical methods in NLP applications; system evaluation.

Also offered as INST728C. Credit granted for CMSC773 or INST728C.

0101	Philip Resnik	Seats (Total: 30)
	W 1:30pm - 4:00pm	WDS 0104

CMSC798 **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

CMSC798A **Graduate Seminar in Computer Science**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

Credits: 1 Grading Method: Regular, Audit

0101	Ben Shneiderman	Seats (Total: 45)
	Tu 2:00pm - 3:15pm	CSI 2107

(Perm req) Credits: 1-6 Grading Method: Regular, Satisfactory, Fail

(Perm req) Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

Credits: 3 Grading Method: Regular, Audit

0101	Michelle Mazurek	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	CSI 2120

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.

0101	Ashok Agrawala	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 3118

CMSC828A Advanced Topics in Information Processing

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC828C Advanced Topics in Information Processing; Logic and Artificial Intelligence

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Venkatramanan Subrahmanian	Seats (Total: 20)
	TuTh 9:30am - 10:45am	CSI 3120

CMSC828E Advanced Topics in Information Processing; From Data to Insights

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Vanessa Frias-Martinez	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0115

CMSC828K Advanced Topics in Information Processing; Robotics and Perception

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.

0101	Cornelia Fermuller	Seats (Total: 10)
	TuTh 9:30am - 10:45am	CSI 2120

CMSC838A Advanced Topics in Programming Languages

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.

Contact department for information to register for this course.

CMSC838G Advanced Topics in Programming Languages; Mechanized Proof and Verified Software

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.

0101	Michael Hicks	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	CSI 3118

CMSC858A Advanced Topics in Theory of Computing

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

Contact department for information to register for this course.

CMSC858X Advanced Topics in Theory of Computing; Biological Network Analysis

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.

0101	Eytan Ruppín	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	CSI 3118

CMSC878A Advanced Topics in Numerical Methods

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the literature of numerical methods to suit the interest and background of students.

Contact department for information to register for this course.

CMSC898**Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular, Sat-Fail

Prerequisite: permission of instructor. Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students. May be repeated for credit.

Contact department for information to register for this course.

CMSC899**Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

COMM Communication

Spring 2016

COMM107**Oral Communication: Principles and Practices**

Credits: 3

Grading Method: Regular, Pass-Fail

General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

0101	Nathaniel Stoltz	Seats (Total: 19)
	MWF 2:00pm - 2:50pm	PLS 1180
0201	Liang Ma	Seats (Total: 19)
	TuTh 8:00am - 9:15am	PLS 1180
0301	Tyler Page	Seats (Total: 19)
	TuTh 8:00am - 9:15am	PLS 1184
0401	Morgan Hess	Seats (Total: 19)
	MWF 10:00am - 10:50am	PLS 1184
0501	Nathaniel Stoltz	Seats (Total: 19)
	MWF 1:00pm - 1:50pm	PLS 1180
0601	Samuel Rubin	Seats (Total: 19)
	TuTh 12:30pm - 1:45pm	PLS 1180

0701	Rodney Schwartz TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1180
0801	Brooke Fowler MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1111
0901	Samuel Rubin TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1180
1001	Jaclyn Bruner TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1184
1101	Karen Lamb, Sarah Nelson MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1168
1201	William Howell TuTh 9:30am - 10:45am	Seats (Total: 19) HBK 0108
1301	Samuel Rubin TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1180
1401	Elizabeth Gardner MWF 1:00pm - 1:50pm	Seats (Total: 19) ASY 3221
1501	Tyler Page TuTh 12:30pm - 1:45pm	Seats (Total: 19) SKN 1112
1601	Rodney Schwartz TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1176
1701	Stephanie Madden MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1111
1801	Cassondra Pope TuTh 2:00pm - 3:15pm	Seats (Total: 19) SQH 1111
1901	Rodney Schwartz TuTh 2:00pm - 3:15pm	Seats (Total: 19) SKN 1112
2001	Sarah Nelson, Karen Lamb MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1184

2101	Rowena Kirby-Straker, Sarah Nelson MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1184
2201	Jessica Lu MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1180
2301	Stephanie Madden MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1176
2401	Kathleen Brown MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1168
2601	Lauren Bender TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1176
2701	Timothy Penn TuTh 9:30am - 10:45am	Seats (Total: 19) SKN 1112
2801	Claire Tills MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1184
2901	Jung Lim MWF 9:00am - 9:50am	Seats (Total: 19) HBK 1108
3001	Jean Vandenbosch MWF 9:00am - 9:50am	Seats (Total: 19) HBK 0123
3101	Rodney Schwartz TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1184
3201	Christopher Swift TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1180
3301	Cassondra Pope TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1172
3401	L Gordon TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1176
3501	Kathleen Brown MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1146

3601	Nora Murphy MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1176
3701	Luke Capizzo MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1162
3801	Luke Capizzo MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1162
3901	Taylor Hahn TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1184
4401	Sarah Nelson, Rowena Kirby-Straker MWF 9:00am - 9:50am	Seats (Total: 19) HBK 0108
4601	Julio Bermejo MW 2:00pm - 3:15pm	Seats (Total: 19) HBK 1112
4701	Lara Hollenczer MW 3:30pm - 4:45pm	Seats (Total: 19) KEY 0126
4801	Paula Nadler MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0126
4901	Christopher Volker MW 3:30pm - 4:45pm	Seats (Total: 19) HBK 1112
5001	Lara Hollenczer MW 5:00pm - 6:15pm	Seats (Total: 19) KEY 0124
5101	Taylor Hahn TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1184
5301	L Gordon TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1111
5601	Jessica Lu TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1113
5701	Meridith Styer TuTh 3:30pm - 4:45pm	Seats (Total: 19) BPS 1236

5901	Xinyan Zhao TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1180
6001	Nma Obike TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1176
6101	Taylor Hahn TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1184
6201	Kyle Stephan TuTh 3:30pm - 4:45pm	Seats (Total: 19) SQH 1111
6301	Cassondra Pope TuTh 5:00pm - 6:15pm	Seats (Total: 19) SKN 1112
6501	Jessica Lu MW 2:00pm - 3:15pm	Seats (Total: 19) PLS 1176
6601	Meridith Styer MW 2:00pm - 3:15pm	Seats (Total: 19) WDS 1131
6701	Victoria Mends-Cole MW 6:30pm - 7:45pm	Seats (Total: 19) PLS 1180
7101	Rowena Kirby-Straker TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1158
7201	Meridith Styer MW 3:30pm - 4:45pm	Seats (Total: 19) KEY 0123
7301	Karen Lamb TuTh 11:00am - 12:15pm	Seats (Total: 19) WDS 1131
7401	Karen Lamb TuTh 12:30pm - 1:45pm	Seats (Total: 19) WDS 1131
7501	Brooke Fowler MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1180
7601	Jung Lim MWF 11:00am - 11:50am	Seats (Total: 19) WDS 0104

7801	Kimberley Hannah TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1115
7901	L Gordon TuTh 12:30pm - 1:45pm	Seats (Total: 19) PLS 1111
8001	Jean Vandembosch MW 5:00pm - 6:15pm	Seats (Total: 19) PLS 1111
8301	Rebecca Alt MWF 1:00pm - 1:50pm	Seats (Total: 19) CHE 2145
8401	Kathleen Brown MWF 2:00pm - 2:50pm	Seats (Total: 19) CHE 2145
8501	Claire Tills MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1164
8601	Sifan Xu MWF 9:00am - 9:50am	Seats (Total: 19) KEY 0119
8701	Sifan Xu MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0119
8801	Morgan Hess MWF 1:00pm - 1:50pm	Seats (Total: 19) WDS 1131
8901	Jiankun Guo TuTh 12:30pm - 1:45pm	Seats (Total: 19) EGR 0110
9001	Victoria Mends-Cole MW 5:00pm - 6:15pm	Seats (Total: 19) HBK 1108
9101	Samuel Rubin TuTh 6:30pm - 7:45pm	Seats (Total: 19) PLS 1180
9201	Thomas McCloskey MWF 10:00am - 10:50am	Seats (Total: 19) WDS 1131
9301	Nora Murphy MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1168

9401	Cassondra Pope TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1158
9501	Jaclyn Bruner TuTh 11:00am - 12:15pm	Seats (Total: 19) WDS 1127
9601	Savreen Hundal MW 2:00pm - 3:15pm	Seats (Total: 19) SYM 0215
9701	Gerry Strumpf MW 3:30pm - 4:45pm	Seats (Total: 19) PLS 1176
9901	Savreen Hundal MW 3:30pm - 4:45pm	Seats (Total: 19) SKN 1112
9902	Sumin Fang TuTh 3:30pm - 4:45pm	Seats (Total: 19) ARC 1127
9903	Sumin Fang TuTh 5:00pm - 6:15pm	Seats (Total: 19) PLS 1168
9904	Nma Obike TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1168
9907	Liang Ma TuTh 9:30am - 10:45am	Seats (Total: 19) PLS 1176
9909	Kyle Stephan TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 1127
9911	Karen Lamb MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1162
9913	Devin Scott TuTh 9:30am - 10:45am	Seats (Total: 19) WDS 1131
9915	Timothy Penn TuTh 2:00pm - 3:15pm	Seats (Total: 19) CHE 2145
9919	Jean Vandenbosch MW 3:30pm - 4:45pm	Seats (Total: 19) HBK 0108

COMM200 Critical Thinking and Speaking

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

0101	Thomas McCloskey TuTh 12:30pm - 1:45pm	Seats (Total: 19) HBK 0105
0201	Thomas McCloskey TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1184
0301	Rebecca Alt MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1115
0401	Rebecca Alt MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1115

COMM230 Argumentation and Debate

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.

0101	Jade Olson TuTh 8:00am - 9:15am	Seats (Total: 24) PLS 1115
0201	Megan Fitzmaurice TuTh 12:30pm - 1:45pm	Seats (Total: 24) SYM 0215
0301	Megan Fitzmaurice TuTh 11:00am - 12:15pm	Seats (Total: 24) WDS 1114
0401	Jade Olson TuTh 9:30am - 10:45am	Seats (Total: 24) PLS 1115

COMM250 Introduction to Communication Inquiry

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.

This is a blended learning course.

0101	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 ONLINE EDU 1315 Discussion
0102	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 ONLINE EDU 3236 Discussion
0103	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 25) SKN 0200 ONLINE EDU 3236 Discussion
0104	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 ONLINE PLS 1115 Discussion
0105	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 10:00am - 10:50am	Seats (Total: 25) SKN 0200 ONLINE HBK 0123 Discussion
0106	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 11:00am - 11:50am	Seats (Total: 25) SKN 0200 ONLINE EDU 3233 Discussion
0107	Susan Hubbard MW 11:00am - 11:50am Class time/details on ELMs F 9:00am - 9:50am	Seats (Total: 25) SKN 0200 ONLINE BPS 1238 Discussion

0108	Susan Hubbard	Seats (Total: 25)
	MW 11:00am - 11:50am	SKN 0200
	Class time/details on ELMs	ONLINE
	F 10:00am - 10:50am	BPS 1232 Discussion
0109	Susan Hubbard	Seats (Total: 25)
	MW 11:00am - 11:50am	SKN 0200
	Class time/details on ELMs	ONLINE
	F 11:00am - 11:50am	PLS 1117 Discussion

COMM269B Special Topics in Study Abroad II; Oral Communication for Leaders in the Business World

Credits: 1 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269C Special Topics in Study Abroad II; Communication and Campaign Management

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269L Special Topics in Study Abroad II; Social MEdia in Life and Business

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269M Special Topics in Study Abroad II; Media Technology

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269P Special Topics in Study Abroad II; Principles of Film and Media Production

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM269V Special Topics in Study Abroad II; Visual Communication: Intercultural Photography

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

COMM288 Communication Internship

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

0101	Julie Gowin	Seats (Total: 10)
Contact instructor or department for details.		
0601	Leah Waks	Seats (Total: 20)
Contact instructor or department for details.		

COMM324 Communication and Gender

Credits: 3 Grading Method: Regular, , D General Education: DVUP
Pass-Fail, Audit

The creation of images of male and female, and masculine and feminine, through communication, the differences in male and female communication behaviors and styles, and the implications of those images and styles for male-female transactions.

0201	Melissa Lucas	Seats (Total: 35)
	TuTh 8:00am - 9:15am	KEY 0125
0301	Melissa Lucas	Seats (Total: 35)
	TuTh 9:30am - 10:45am	HBK 0105
0401	Lauren Bender	Seats (Total: 35)
	MW 3:30pm - 4:45pm	HBK 0105

0501	Lauren Bender	Seats (Total: 35)
	MW 5:00pm - 6:15pm	KEY 0125

COMM330 Argumentation and Public Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

0101	William Howell	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	SKN 0104
0201	Christopher Swift	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	TYD 2102

COMM331 News Writing and Reporting for Public Relations

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM201; and must have completed or be concurrently enrolled in JOUR181.

Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Or permission of ARHU-Communication department. Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.

Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.

0101	Lara Hollenczer	Seats (Total: 18)
	M 10:00am - 11:50am	EGR 3140
	W 10:00am - 11:50am	EGR 3140 Lab
0301	Lara Hollenczer	Seats (Total: 18)
	M 8:00am - 9:50am	EGR 3140
	W 8:00am - 9:50am	EGR 3140 Lab

COMM332 News Editing for Public Relations

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in COMM331; or students who have taken courses with comparable content may contact the department. And permission of ARHU-Communication department.
Restriction: Must be in Communication program. Credit only granted for: JOUR202, COMM232, or COMM332. Formerly: COMM232.

Copy editing, graphic principles and processes, news and information technologies for public relations.

0101	Pamela Grant	Seats (Total: 18)	
	Tu 1:00pm - 2:15pm	EGR 3140	
	Th 1:00pm - 2:15pm	EGR 3140	Lab
0201	Pamela Grant	Seats (Total: 18)	
	Tu 2:30pm - 3:45pm	EGR 3140	
	Th 2:30pm - 3:45pm	EGR 3140	Lab

COMM340 Communicating the Narrative

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

The role of narratives in communicating messages and development of strategies to effectively communicate the narrative form through storytelling, oral reading, and anecdotes.

0101	Lindsey Anderson	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	SKN 1115	

COMM351 Public Relations Techniques

(Perm req) Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: COMM332. Restriction: Must be in Communication program. Credit only granted for: COMM351 or JOUR331. Formerly: JOUR331.

The techniques of public relations, including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.

0101	Julio Bermejo	Seats (Total: 18)	
	M 5:00pm - 6:15pm	EGR 3140	
	W 5:00pm - 6:15pm	EGR 3140	Lab
0201	Pamela Grant	Seats (Total: 18)	
	M 3:30pm - 4:45pm	EGR 3140	
	W 3:30pm - 4:45pm	EGR 3140	Lab

COMM353 New Media Writing for Public Relations

(Perm req)

Credits: 3 Grading Method: Regular

*Prerequisite: Minimum grade of C- in COMM351. Restriction: Must be in Communication program.
Credit only granted for: COMM352 or COMM353. Formerly: COMM352.*

Students learn the uses and influence of new media on public relations practice and expand their ability to write using new and traditional media platforms and tools

0101	Timothy Penn	Seats (Total: 18)	
	Tu 8:00am - 9:15am	EGR 3140	
	Th 8:00am - 9:15am	EGR 3140	Lab
0201	Jiankun Guo	Seats (Total: 18)	
	Tu 11:00am - 12:15pm	EGR 3140	
	Th 11:00am - 12:15pm	EGR 3140	Lab

COMM360 The Rhetoric of Black AmericaCredits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

0201	Jaclyn Bruner	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	KEY 1117	

COMM370 Mediated CommunicationCredits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Junior standing or higher.

Analysis and critique of structure, performance, content, effects, and future of mediated communication.

0101	Christopher Volker	Seats (Total: 45)	
	MW 5:00pm - 6:15pm	TYD 1118	

COMM371 Communication and Digital MediaCredits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Communication program. Credit only granted for: COMM371 or COMM398V. Formerly: COMM398V.

A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.

SG91	Robert Coleman	Seats (Total: 25)
	MW 9:00am - 10:45am	BLD3 3216
	<i>Restricted to COMM students at Shady Grove.</i>	

COMM376 Communication through Advocacy Short Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Communication program.

Explores the theory and practice of contemporary communication and advocacy short form video.

SG91	Adam Nixon	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	BLD3 3216
	<i>Restricted to COMM majors at Shady Grove.</i>	

COMM382 Essentials of Intercultural Communication

Credits: 3 Grading Method: Regular, , D General Education: DVCC
Pass-Fail, Audit

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

0101	Deepa Anagondahalli	Seats (Total: 45)
	TuTh 5:00pm - 6:15pm	TYD 2109
0201	Deepa Anagondahalli	Seats (Total: 45)
	TuTh 3:30pm - 4:45pm	TYD 2111
0401	Anita Seate	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	KEY 0125

SG91	Deepa Anagondahalli	Seats (Total: 40)
	MW 3:30pm - 4:45pm	BLD3 3225
<i>Restricted to COMM majors at Shady Grove.</i>		

COMM385

Influence

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Credit only granted for: COMM385 or COMM498I (Spring 2014). Formerly: COMM498I (Spring 2014).

Explores contemporary theories of influence and their implications for communication practice. Topics include power and influence, logical theory, rhetorical theory, persuasion theory, framing theory, social influence theory, and propagation of influence in mediated social networks.

SG91	Amanda Irions	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BLD3 4225
<i>Restricted to COMM students at Shady Grove.</i>		

COMM386

Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular, Pass-Fail General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

0101	Julie Gowin	Seats (Total: 60)
Contact instructor or department for details.		
SG91	Lindsi Baltz	Seats (Total: 20)
Contact instructor or department for details.		

COMM388

Communication Practicum

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM398**Selected Topics in Communication**

(Perm req)

Credits: 3 Grading Method: Regular

*Topical study of contemporary issues in communication.***Contact department for information to register for this course.****COMM398C****Selected Topics in Communication; Peer Consulting in Oral Communication**

(Perm req)

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Restricted to majors in Communication. Provides training in the principles and practice of peer consulting in the context of the Oral Communication Center in the Department of Communication. Students will apply and integrate the knowledge and skills acquired in COMM107 (or COMM 200) with new training to help their peers become outstanding listeners and speakers. They will also engage in a group research project designed to extend knowledge in peer consulting best practices.

0101	Rowena Kirby-Straker	Seats (Total: 14)
	Tu 5:00pm - 7:30pm	SKN 2117

COMM398E**Selected Topics in Communication; Health Communication**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Restricted to COMM majors only.

0101	Zexin Ma	Seats (Total: 35)
	MW 2:00pm - 3:15pm	SKN 1115

COMM398J**Selected Topics in Communication; Communication and Advanced Digital Imaging**

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Continuation of COMM398N (although COMM398N is not a prerequisite). Concentration is on advanced visual imaging, with theme-based projects that incorporate advanced features of Photoshop CC, including raw imaging.

SG91	Robert Coleman	Seats (Total: 25)
	MW 2:00pm - 3:45pm	BLD3 3216
<i>Restricted to Communication students at Shady Grove.</i>		

COMM398O Selected Topics in Communication; Digital Media and Democracy

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

0101	Jon Hoffman	Seats (Total: 100)
	TuTh 12:30pm - 1:45pm	SQH 1120

COMM398R Selected Topics in Communication; Interactive Online Media

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

Contact department for information to register for this course.

COMM398W Selected Topics in Communication; Web Design

Credits: 3 Grading Method: Regular

Topical study of contemporary issues in communication.

A basic to intermediate introduction to web design. Students will begin by developing a simple personal web site using CSS-based layouts, and progress to more complex CSS3-driven layouts. In addition to the basics of web creation, content, layout and design, this course will also emphasize basic computer skills and file management. FTP using Fetch or or Transmit, creative effects using jQuery widgets, and other techniques and topics will be discussed. This course will utilize Dreamweaver, Photoshop, Flash and Illustrator, with possible introductions to other software.

SG91	Robert Coleman	Seats (Total: 25)
	MW 11:00am - 12:15pm	BLD3 3216
<i>Restricted to Communication Students at Shady Grove.</i>		

COMM399 Honors Thesis

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0401	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
0601	Leah Waks	Seats (Total: 10)
	Contact instructor or department for details.	

4001	Xiaoli Nan	Seats (Total: 10)
Contact instructor or department for details.		

COMM400

Research Methods in Communication

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM250; and must have an introductory course in statistics. Restriction: Must be in Communication program.

Philosophy of scientific method; role of theory; research ethics; empirical research methods (measurement, sampling, design, analysis).

Attendance on the first day of class is mandatory.

0101	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 9:00am - 9:50am	PLS 1180 Discussion
0102	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 10:00am - 10:50am	PLS 1168 Discussion
0103	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 11:00am - 11:50am	EDU 2102 Discussion
0104	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 12:00pm - 12:50pm	PLS 1162 Discussion
0105	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 1:00pm - 1:50pm	PLS 1158 Discussion
0106	Nicholas Joyce	Seats (Total: 20)
	MW 2:00pm - 2:50pm	KEY 0106
	F 2:00pm - 2:50pm	KEY 0119 Discussion
SG91	Soyoung Bae	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 4226
<i>Restricted to COMM students at Shady Grove.</i>		

COMM401 Interpreting Strategic Discourse

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Principles and approaches for practical analysis of discourse designed to shape audience opinion.

0101	Christopher Swift TuTh 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 20) SKN 0200 WDS 1131	Discussion
0102	Christopher Swift TuTh 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) SKN 0200 PLS 1168	Discussion
0103	Christopher Swift TuTh 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 20) SKN 0200 WDS 1127	Discussion
0104	Christopher Swift TuTh 2:00pm - 2:50pm W 9:00am - 9:50am	Seats (Total: 20) SKN 0200 WDS 1127	Discussion
0105	Christopher Swift TuTh 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) SKN 0200 WDS 1127	Discussion
0106	Christopher Swift TuTh 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 20) SKN 0200 WDS 1131	Discussion
SG91	Jon Hoffman MW 12:30pm - 1:45pm <i>Restricted to Communication Students at Shady Grove.</i>	Seats (Total: 40) BLD3 4216	

COMM402 Communication Theory and Process

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program.

Philosophical and conceptual analysis of communication theories.

0101	Soyoung Bae MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) ASY 2203 WDS 1127	Discussion
0102	Soyoung Bae MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) ASY 2203 WDS 1130	Discussion
0103	Soyoung Bae MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) ASY 2203 WDS 1131	Discussion
0104	Soyoung Bae MW 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 20) ASY 2203 KEY 0117	Discussion
0105	Soyoung Bae MW 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 20) ASY 2203 KEY 0117	Discussion
0106	Soyoung Bae MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) ASY 2203 ASY 3221	Discussion
SG91	Soyoung Bae TuTh 2:00pm - 3:15pm <i>Restricted to Communication Students at Shady Grove.</i>	Seats (Total: 40) BLD3 4226	

COMM422

Communication Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Communication policies, plans, channels, and practices in the management of the communication function in organizations.

0101	Andrew Wolvin TuTh 11:00am - 12:15pm	Seats (Total: 35) SKN 0104	
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SG91	Judith Tenney	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD1 108
<i>Restricted to Communication Students at Shady Grove.</i>		

COMM424 Communication in Complex Organizations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Structure and function of communication within organizations: organizational climate and culture, information flow, networks and role relationships.

0101	Lindsey Anderson	Seats (Total: 35)
	TuTh 8:00am - 9:15am	SQH 1103

COMM425 Negotiation and Conflict Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Role of communication in shaping negotiation and conflict processes and outcomes.

Restricted to COMM majors.

0101	Lauren Edelstein	Seats (Total: 50)
	TuTh 11:00am - 12:15pm	HBK 0302J

COMM426 Conflict Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: COMM425; and COMM250; and COMM402.

Role of communication in managing conflict processes.

Restricted to COMM majors.

0101	Lauren Edelstein	Seats (Total: 50)
	TuTh 9:30am - 10:45am	HBK 0302J

COMM427H Crisis Communication

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail, Audit

Credit only granted for: COMM398C or COMM427. Formerly: COMM398C.

Explores theories and research related to communication before, during, and after a crisis. Students examine the fundamentals of organizational communication, crisis management, and strategic and crisis communication planning before examining case studies of a number of real-life crises: organizational crises, natural disasters, accidents, terrorism incidents, health crises, and major crises of credibility.

Restricted to students in the departmental honors program.

0101	Brooke Liu	Seats (Total: 5)
	Th 2:00pm - 5:00pm	SKN 2127

COMM435 Theories of Interpersonal Communication

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM400; or permission of ARHU-Communication department.

Major theoretical approaches and research trends in the study of interpersonal communication.

SG91	Judith Tenney	Seats (Total: 40)
	TuTh 9:30am - 10:45am	BLD1 108
<i>Limit to CCJS students at Shady Grove.</i>		

COMM450 Ancient and Medieval Rhetorical Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM250. Restriction: Must be in Communication program. Credit only granted for: COMM450 or COMM650.

A survey of rhetorical theory in the ancient and medieval periods. Emphasis is placed on the theoretical problems that gave rise to its development within both periods. Authors include Isocrates, Plato, Aristotle, Cicero, Quintilian, Hermogenes, Martianus Capella, Aurelius Augustine, Alberic of Monte Cassino, Geoffrey of Vinsauf and Robert of Basevorn.

0101	Taylor Hahn	Seats (Total: 45)
	TuTh 2:00pm - 3:15pm	ARC 1103
SG91	Jon Hoffman	Seats (Total: 40)
	MW 11:00am - 12:15pm	BLD3 4216
<i>Restricted to COMM students at Shady Grove.</i>		

COMM455**Speechwriting**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

The study of message strategies in order to research and develop effective speech texts appropriate to speakers and their audiences in various public contexts.

SG91	Judith Tenney	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BLD1 108
<i>Restricted to Communication Students at Shady Grove.</i>		

COMM461**Voices of Public Leadership in the Twentieth Century**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Study of the use of speaking in the power struggles of the twentieth century. Focus is on important speakers of the century, their social and policy influence, and the struggle to expand the diversity of voices with power in the public sphere.

0201	Christopher Swift	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	TYD 1118

COMM468A**Seminar in Mediated Communication; Arab Media**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

The examination of special topics related to the study of mediated communication.

0101	Sahar Khamis	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	TYD 2110

COMM4690**The Discourse of Social Movements; Rhetoric of Oppressed Peoples**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Study of key social movements that have influenced American social and political life. In alternate years the Civil Rights Movement and the Rhetoric of Women's Suffrage and Abolitionism. Consideration of how groups excluded from or marginalized in American political life affect social change.

0101	Michelle Yang	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	KEY 0125

COMM470**Listening**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*The principles of listening behavior.*

Restricted to COMM majors.

0101	Andrew Wolvin	Seats (Total: 35)
	TuTh 9:30am - 10:45am	SKN 0104

COMM471H**Public Communication Campaigns**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: COMM200; or permission of ARHU-Communication department.**Diffusion theory and its implications for public communication campaigns.*

This course requires departmental permission and is restricted to students in the departmental honors program.

0101	Linda Aldoory	Seats (Total: 5)
	M 3:30pm - 6:30pm	SKN 2127

COMM472**Nonverbal Communication**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Nonverbal communication in human interaction theory and research on proxemics, kinesics and paralanguage as expression of relationship, affect and orientation within and across cultures.*

SG91	Deepa Anagondahalli	Seats (Total: 40)
	MW 2:00pm - 3:15pm	BLD3 3225

Restricted to COMM majors at Shady Grove.

COMM475**Persuasion**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Bases of persuasion, with emphasis on recent experimental developments in persuasion.*

Restricted to COMM majors.

0101	Soyoung Bae MW 3:30pm - 4:45pm	Seats (Total: 50) TYD 1101
0201	Susan Hubbard MW 12:30pm - 1:45pm	Seats (Total: 50) SKN 0104

COMM478 Communication Colloquium

Credits: 1 Grading Method: Regular

*Current trends and issues in the field of communication, stressing recent research methods.
Recommended for senior and graduate student majors and minors in communication.*

0101	Nicholas Joyce F 12:00pm - 1:30pm	Seats (Total: 40) SKN 0200
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COMM483 Senior Seminar in Public Relations

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: COMM351 and COMM400. Credit only granted for: COMM483 or JOUR483. Formerly: JOUR483.

Integration of theory, techniques and research methods into the planning and execution of public relations campaigns for specific organizations. Analysis of research on the case studies of public relations.

Restricted to majors in Communication

0101	Susan Simon TuTh 12:30pm - 1:45pm	Seats (Total: 20) HBK 1108
0201	Susan Simon TuTh 9:30am - 10:45am	Seats (Total: 20) JMZ 0120

COMM489 Topical Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Individualized research projects conducted with a faculty sponsor.

Contact department for information to register for this course.

COMM498B Seminar; Bateman Competition

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

0101

Susan Simon

Seats (Total: 20)

Contact instructor or department for details.

COMM498G Seminar; Event Planning and Communication

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

Restricted to COMM majors.

0101

Pamela Grant

Seats (Total: 35)

TuTh 9:30am - 10:45am

WDS 0104

COMM498N Seminar; Creating the Narrative: Genre-Filmmaking and Dramatic Structure

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

First time filmmakers often use genre traditions to break into the profession. In this class we will explore the history, motifs, and technique of the horror, suspense and romantic comedy genres.

SG91

Adam Nixon

Seats (Total: 30)

Th 4:00pm - 6:30pm

BLD3 3216

Restricted to Communication Students at Shady Grove.

COMM498Q Seminar; Sound, Lighting and Cinematography in Digital Visual Communication

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

Film-making is the sum of its parts. In this class we will explore advanced technique in lighting design, sound and cinematography.

SG91	Adam Nixon	Seats (Total: 30)
	W 4:00pm - 6:30pm	BLD3 3212
<i>Restricted to Communication Students at Shady Grove.</i>		

COMM498T Seminar; Communication and Digital Media: Theory and Practice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

Digital platforms and new media are changing the meaning of community, interaction, and place. In this class we will explore mobile theory and and conceive of new tools and applications to address evolving mobile technologies.

SG91	Adam Nixon	Seats (Total: 30)
	Tu 4:00pm - 6:30pm	BLD3 3216
<i>Restricted to Communication Students at Shady Grove.</i>		

COMM498V Seminar; Visual Rhetoric

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

Restriction: COMM majors (1506A) only. An examination of the rhetorical implications of looking. Investigates how oppressed groups have been visually displayed in news photographs, museum exhibits, and in popular culture. Due to this focus on visual portrayals of cultural others, part of the class will be devoted to examining visual artifacts related to traumatic events including war, natural disasters, self-immolation, and lynching which some students may find disturbing. In tackling this difficult subject matter, the course will examine the intersection between responsibility and looking. Who has the right to take, display, and examine these images? Who makes this determination and what are the rhetorical implications of it.

0101	Michelle Yang	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	SKN 0104

COMM498Z Seminar; Communication and Relationships: Why Things Fall Apart

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Present-day communication research.

SG91	Amanda Irions	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD3 4225
<i>Restricted to Communication Students at Shady Grove.</i>		

Communication and public relations as a managed function of organizations are introduced. Students learn how managing communication contributes to organizational effectiveness. Using organizational theory, theories of Excellence in public relations and communication management, communication metrics and communication ethics, students build their communication strategic management skills beyond the programmatic level to the functional and organizational levels of decision-making.

PG01	Elisabetta Ullmann, Stephen Lank	Seats (Total: 16)
	Th 9:00am - 12:00pm	SKN 3117
	<i>Restricted to students in GSIT Program.</i>	

Builds upon the systematic, reflective approach to interpreting in real-world settings introduced in Fundamentals of Interpreting. Consecutive interpreting skills are consolidated through individual and group practice, and any remaining challenges related to consecutive interpreting sub-skills are identified and addressed. Stresses effective analysis, note-taking, and use of voice during exercises in sight translation, dialogue, and formal consecutive interpreting.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>Restricted to students in GSIT program.</i>	

COMM629 **Introduction to Simultaneous Interpretation**

Credits: 1 Grading Method: Regular, Audit

Builds upon the overview of the simultaneous mode in Fundamentals of Interpreting by reviewing the relationship between consecutive and simultaneous skills and introducing work in the booth. Challenges of simultaneous interpreting, including split attention, ear-voice span, and voice and microphone technique are addressed. Participants become familiar with the booth and exercises required to build simultaneous skills. Role and use of portable equipment in professional settings are discussed. Recommended as preparation for the M.A. entrance examination.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>Restricted to students in GSIT program.</i>	

COMM637 Professional Practice Forum in Translation: Career Portfolio and Exams

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: Admissions test for second year courses; and (COMM659 and COMM679); and permission of ARHU-Communication department.

Serves as final preparation for entry into the profession through development of career portfolio to meet summative degree requirement and development of strategies for gaining work as a professional translator. Prepares participants for degree examinations and employer tests through the review of previous exam material and employer testing requirements. Serves as venue for degree examinations, career goal setting and planning for future employment. Participants present and defend career portfolio as summative requirement for MA in translation; MA in Trans. and Localization Project.

PG01	Peng Wang, Luigi David Luccarelli, Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	F 1:00pm - 3:00pm	SKN 3117
	<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 29.</i>	

COMM641 Introduction to Computer-Assisted Translation

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: Admissions test for first year courses; and COMM639; and permission of ARHU-Communication department.

Introduces the use of computer-assisted translation tools to support large-scale translation projects and streamline translation processes. Focuses on industry software products that utilize translation memory and terminology management systems. Discusses the role of tools in the entire translation process from pre- to post-editing.

PG01	Peng Wang	Seats (Total: 16)
	F 9:00am - 11:00am	SKN 3115
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 5.</i>		

COMM649 Translation for Specific Domains

Credits: 2-6 Grading Method: Regular,
Audit

Builds upon the systematic, reflective approach introduced in Fundamentals of Translation by addressing the development of translation skills required for specialization in specific domains. In written and sight translation exercises include researching specialized subject material, developing and maintaining terminology, and consulting experts in the field. Includes authentic, real-world translation projects in translation teams. Overview of computer-assisted translation tools and continued work on sight translation enable higher levels of productivity under time constraints.

PG01	Peng Wang	Seats (Total: 24)
	Contact instructor or department for details.	
<i>Restricted to students in GSIT program.</i>		

COMM652 Contemporary Rhetorical Theory

Credits: 3 Grading Method: Regular,
Audit

Formerly: SPCH652.

A study of twentieth century theories of rhetoric. Special attention will be devoted to Richard Weaver, Kenneth Burke, Lloyd Bitzer, Ernest Bormann, Walter Fisher, and the continental theorists of communication such as Chaim Perelman and Jurgen Habermas.

0101	Trevor Parry-Giles	Seats (Total: 15)
	Tu 6:30pm - 9:30pm	SKN 2127

COMM657 Professional Practice Forum in Interpreting: Career Portfolio and Exams

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: COMM719, COMM769, and COMM729; and admissions test for second-year courses; and permission of ARHU-Communication department.

Serves as final preparation for entry into the profession through development of strategies for gaining work as a professional translator. Prepares participants for degree examinations and employer tests through the review of previous exam material and employer testing requirements. Serves as venue for degree examinations, career goal setting and planning for future employment. Participants present and defend career portfolio and summative requirement for degree.

PG01	Luigi David Luccarelli	Seats (Total: 16)
	F 1:00pm - 3:00pm	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other wee beginnig January 29.</i>		

COMM659 Translation for Language-Specific Markets

Credits: 1-2 Grading Method: Regular,
Audit

Builds translation skills to a highly professional level by developing autonomy in completing authentic, real-world translation projects based upon the reflective approach developed in the first-year curriculum. Develops one or more specializations. Completion of individual and group projects covering all aspects of professional translation from subject matter research, terminology work, and use of computer-assisted translation tools. Sight translation and timed exercises to increase production and meet deadlines.

PG01	Peng Wang	Seats (Total: 16)
	Contact instructor or department for details.	
<i>Restricted to students in GSIT Program.</i>		

COMM669 Professional Practice Forum in Translation: Practicum

Credits: 1 Grading Method: Regular,
Audit

Provides opportunities to complete real-world translation projects on campus and in the public service, legal, business, and political communities as translators, project managers and translators/reviewers working on group projects. Collaboration with participants in the interpreting practicum is also sought to prepare multilingual texts for practicum events and familiarize participants with conference translation. Complements Translation for Specific Markets, and practicum projects are included in course and career reflective practice portfolios. Requires independent study plan agreed with course instructor.

PG01	Thomas Afton	Seats (Total: 16)
	Contact instructor or department for details.	
<i>Restricted to students in GSIT Program.</i>		

COMM683 Intercultural Communication Theory

Credits: 3 Grading Method: Regular, Audit

An in-depth coverage of the essential theories of intercultural communication is provided.

0101	Nicholas Joyce	Seats (Total: 16)
	M 6:30pm - 9:30pm	SKN 2127
PG01	Peng Wang, Hans Fenstermacher	Seats (Total: 16)
	M 1:30pm - 4:30pm	Location: TBA
	<i>Restricted to students in GSIT Program.</i>	

COMM688 Communication Field Experience

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Applications of communication principles and research in professional communication settings.

Contact department for information to register for this course.

COMM698 Special Problems in Communication

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

COMM698A Special Problems in Communication; Communicatin and Emotion

Credits: 3 Grading Method: Regular,
Audit

0101	Anita Seate	Seats (Total: 15)
	Th 6:30pm - 9:30pm	SKN 2127

COMM698P Special Problems in Communication; Public Communications Campaign

Credits: 3 Grading Method: Regular, Audit

This special seminar will cover the research, theory and processes behind today's communication campaigns and their audiences, design, channels, messages, and effects. Students will be expected to not only discuss readings and engage in lecture, but also will do applied work evaluation on campaigns and build their portfolio of research and/or practice. Topics covered can include health, risk, voting, human rights, education, and community outreach and engagement, or other topics of interest to the students.

0101	Linda Aldoory	Seats (Total: 10)
	M 3:30pm - 6:30pm	SKN 2127

COMM715 Advanced Qualitative Methods in Communication Research

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: COMM714; or students who have taken courses with comparable content may contact the department.

Advanced data analysis of qualitative data in Communication research. In-field research and techniques for analysis of data from in-field work.

0101	Sahar Khamis	Seats (Total: 15)
	Tu 3:30pm - 6:30pm	SKN 2127

COMM719 Advanced Consecutive Interpretation

Credits: 2-3 Grading Method: Regular,
Audit

Builds consecutive interpreting skills to a highly professional level by sharpening listening, processing, memory, note-taking, and delivery skills, enabling interpretation of highly complex material requiring particular attention to nuance, tone, and style. Includes dialogue and monologue interpreting exercises with specialized subject material. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	F 9:00am - 12:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other wee beginning January 29.</i>		

COMM730 Seminar in Health Communication

Credits: 3 Grading Method: Regular,
Audit

Formerly: SPCH730.

Communication processes in health care and promotion.

PG01	Velandia-Pardo Carol-Gizell	Seats (Total: 16)
	F 9:00am - 12:00pm	SKN 2127
<i>Restricted to students in GSIT Program. Class will meet in ARC 1103 on the following dates; March 4th, April 8th, and May 6th.</i>		

COMM739C **topics in Public Relations; Crisis Communication**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Seminar on specialized areas of scholarly research in public relations or on the practice of public relations in specialized organizational settings.

0101	Brooke Liu	Seats (Total: 10)
	Th 2:00pm - 5:00pm	SKN 2127

COMM749 **Advanced Simultaneous Interpretation**

Credits: 2-3 Grading Method: Regular,
Audit

Builds simultaneous interpreting skills to a highly professional level, including highly complex material requiring particular attention to nuance, tone, and style. Resolves any remaining challenges of split attention, ear-voice span, memory and delivery / presentation. Introduces simultaneous interpretation with text, based upon sight translation techniques. Participants emerge from the course as reflective practitioners with the simultaneous interpreting skills required to perform competently in real-world settings.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	
<i>Restricted to students in GSIT Program.</i>		

COMM759 **Professional Practice Forum in Interpreting: Practicum**

Credits: 1-3 Grading Method: Regular,
Audit

Provides opportunities to interpret consecutively and simultaneously in real-world settings on campus and in the public service, legal, business, and political communities. Develops team leader skills by organizing and convening an event or series of events (conference, debate, or negotiation), selecting topics and delegates, and preparing speeches and arguments to deliver and interpret. Collaboration with participants in M.A. translation courses is sought. Requires independent study plan agreed with course instructor.

PG01	Thomas Afton, Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>Restricted to students in GSIT program.</i>	

COMM762 The Rhetoric of Political Institutions

Credits: 3 Grading Method: Regular

The role of discourse in major political institutions is examined. The specific institutional focus may change from instructor to instructor. Examples include Congress, the courts, or the state legislatures.

PG01	David Sawyer	Seats (Total: 16)
	M 5:30pm - 8:30pm	SKN 3117
	<i>Restricted to students in GSIT program. Class begins February 2.</i>	

COMM789A Seminar: Special Topics in Intercultural Communication; Advanced Political and Legal Communication

Credits: 3 Grading Method: Regular,
Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

PG01	Shawn Parry-Giles, Miriam Stanicic	Seats (Total: 16)
	Th 1:00pm - 2:30pm	SKN 3118
	Sa 8:30am - 11:30am	Location: TBA
	<i>Restricted to students in GSIT Program. Saturday class meeting will meet every other week beginning February 6 in JMZ 1226.</i>	

COMM789B Seminar: Special Topics in Intercultural Communication; Advanced Health Communications

Credits: 3 Grading Method: Regular,
Audit

Explores special topic areas within the study of intercultural communication, such as culture and conflict, intercultural negotiation, cross-cultural relationships.

PG01	Velandia-Pardo Carol-Gizell	Seats (Total: 16)
	F 9:00am - 12:00pm	SKN 2127
	<i>Restricted to students in GSIT Program. Class will meet in ARC 1103 on the following dates; March 4th, April 8th, and May 6th.</i>	

COMM798**Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

An individual course designed for intensive study or research of problems in communication.

Contact department for information to register for this course.

COMM798B**Independent Study; Text Analysis and Intensive Writing**

Credits: 1 Grading Method: Regular,
Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Shawn Parry-Giles	Seats (Total: 16)
	M 11:00am - 12:00pm	SKN 2127
	<i>Language: English. Restricted to students in GSIT Program.</i>	
PG02	Eva Vilarrubi	Seats (Total: 16)
	W 10:00am - 12:00pm	SKN 0105
	<i>Language: Spanish. Restricted to students in GSIT Program. Course will meet every other week beginning January 27.</i>	
PG03	McDonald Hyunju	Seats (Total: 17)
	Sa 2:00pm - 3:00pm	Location: TBA
	<i>Restricted to students in GSIT Program. In class meetings: 2/20, 4/2, 5/07. Language: Korean.</i>	

COMM798C**Independent Study; Advanced English Interpreting**

Credits: 1-2 Grading Method: Regular,
Audit

An individual course designed for intensive study or research of problems in communication.

PG01	Esperanza Pombo Lopez-Barron	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>Restricted to students in GSIT Program.</i>	

COMM798D**Independent Study; Science Interpreting and Translation**

Credits: 1-3 Grading Method: Regular,
Audit

PG01	Irina Knizhnik	Seats (Total: 16)
	W 6:00pm - 8:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 27.</i>		

PG01	Jon Ritzdorf	Seats (Total: 16)
	F 4:00pm - 8:30pm	SKN 3117
<i>Restricted to students in GSIT Program. Begins March 25.</i>		

PG01	Shawn Parry-Giles	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>Restricted to students in GSIT program.</i>	

Contact department for information to register for this course.

Contact department for information to register for this course.

COMM889**Doctoral Tutorial in Communication**

(Perm req)

Credits: 3-9

Grading Method: Regular,
Audit*Individual research in communication.***Contact department for information to register for this course.****COMM898****Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-
Fail**Contact department for information to register for this course.****COMM899****Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-
Fail**Contact department for information to register for this course.****CONS****Sustainable Development &
Conservation Biology****Spring 2016****CONS609I****Special Topics in Conservation Biology; Internship**

Credits: 1

Grading Method: Sat-Fail

Lectures, experimental courses and other special instructions in various subjects in conservation biology.

0101	Karen Lips	Seats (Total: 20)
Contact instructor or department for details.		

CONS680**Problem Solving in Conservation/Development**

Credits: 4

Grading Method: Regular,
Audit*Students will be exposed to current problems in conservation and development through great lectures, field trips, interviews and appropriate literature. Working in teams, students will formulate recommendations based on a synthesis of biological, economic and policy considerations.*

0101	Karen Lips	Seats (Total: 24)
	MW 1:30pm - 4:30pm	HJP 1213G

CONS798**Research Papers in Sustainable Development and Conservation Biology**

Credits: 1-4 Grading Method: Regular, Sat-Fail

Work on the required scholarly paper.

Contact department for information to register for this course.

CPBE College Park Scholars-Business, Society, and Economy Spring 2016

CPBE230 College Park Scholars: Business, Society & the Economy Internship Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPBE100. Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Supervised internship project in an area related to business, society and the economy.

0101	Mark Wellman	Seats (Total: 45)
	Tu 6:00pm - 8:00pm	Location: TBA

CPBE240 College Park Scholars: Business, Society & the Economy Service-Learning Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPBE100. Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Supervised Service-Learning project in an area related to business, society and the economy.

0101	Mark Wellman	Seats (Total: 25)
	Tu 6:00pm - 8:00pm	Location: TBA
0102	Mark Wellman	Seats (Total: 0)
	Contact instructor or department for details.	

CPBE250 College Park Scholars: Business, Society & the Economy Research Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPBE100. Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.

Supervised research project in an area related to business, society and the economy.

0101	Mark Wellman	Seats (Total: 20)
	Tu 6:00pm - 8:00pm	Location: TBA

CPBE270**College Park Scholars: Business, Society & the Economy Education Abroad Practicum**

Credits: 1 Grading Method: Regular

*Prerequisite: CPBE100. Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.**Education-abroad experience with content in areas related to business, society and/or the economy.*

0101	Mark Wellman	Seats (Total: 25)
	Tu 6:00pm - 8:00pm	Location: TBA

CPET**College Park Scholars-
Environment, Technology &
Economy****Spring 2016****CPET101****College Park Scholars: Environment, Technology & Economy First-Year Colloquium II**

Credits: 1 Grading Method: Regular

*Prerequisite: CPET100. Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.**Introductory colloquium II: Continued examination of issues related to the convergence of the environment, technology and the economy. Group projects in sustainable development.*

0101	Becky Archer, Timothy Knight	Seats (Total: 26)
	M 5:00pm - 6:15pm	CCC 1205
	M 4:00pm - 4:50pm	Location: TBA Discussion
0102	Timothy Knight, Becky Archer	Seats (Total: 26)
	M 5:00pm - 6:15pm	CCC 1205
	M 5:00pm - 5:50pm	Location: TBA Discussion
0103	Becky Archer, Timothy Knight	Seats (Total: 26)
	M 5:00pm - 6:15pm	CCC 1205
	M 6:00pm - 6:50pm	Location: TBA Discussion

CPET230**College Park Scholars: Environment, Technology & Economy Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPET200. Restriction: Students must be matriculated into the College Park Scholars Environment, Technology & the Economy (CPET) program.

Supervised internship project in an area related to the environment, technology and the economy.

0101	Becky Archer, Elizabeth Schotman, Timothy Knight	Seats (Total: 70)
	Tu 5:00pm - 6:15pm	CCC 1100

CPET240**College Park Scholars: Environment, Technology & Economy Service-Learning Practicum**

Credits: 1-3

Grading Method: Regular

General Education: DSSP

Restriction: Students must be matriculated into the College Park Scholars Environment, Technology & the Economy (CPET), Science, Technology & Society (CPSS), Arts (CPSA) and Business, Society, & Economy (CPBE) programs.

Supervised Service-Learning project in an area related to the environment, technology and the economy.

Restricted to College Park Scholars Arts. Supervised Service-Learning project working directly with the City of Frederick public officials and business owners to establish a municipal curb-side composting system.

0101	Becky Archer, Timothy Knight, Elizabeth Schotman	Seats (Total: 15)
	Tu 5:00pm - 6:15pm	CCC 1100

CPET250**College Park Scholars: Environment, Technology & Economy Research Practicum**

Credits: 1-3

Grading Method: Regular

Prerequisite: CPET200. Restriction: Students must be matriculated into the College Park Scholars Environment, Technology & the Economy (CPET) program.

Supervised research project in an area related to the environment, technology and the economy.

0101	Becky Archer, Elizabeth Schotman, Timothy Knight	Seats (Total: 5)
	Tu 5:00pm - 6:15pm	CCC 1100

CPGH**College Park Scholars-Global
Public Health****Spring 2016**

CPGH101**College Park Scholars: Global Public Health First-Year Colloquium II**

Credits: 1

Grading Method: Regular

Prerequisite: CPGH100. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Using case studies, students will examine necessary components to design successful public health interventions.

0101	Paul Bueno de Mesquita, Abigail Bickford, Muhiuddin Haider	Seats (Total: 80)
	W 2:00pm - 3:15pm	CCC 1205

CPGH230**College Park Scholars: Global Public Health - Internship Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPGH200. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Supervised internship project in an interest area related to global public health.

0101	Abigail Bickford, Paul Bueno de Mesquita, Muhiuddin Haider, Elisabeth Maring	Seats (Total: 30)
	M 3:00pm - 3:50pm	CCC 1100

CPGH240**College Park Scholars: Global Public Health Service-Learning Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPGH200. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Supervised Service-Learning project in an interest area related to global public health.

0101	Paul Bueno de Mesquita, Abigail Bickford, Muhiuddin Haider, Elisabeth Maring	Seats (Total: 40)
	M 3:00pm - 3:50pm	CCC 1100

CPGH250**College Park Scholars: Global Public Health Research Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPGH200. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Supervised research project in an interest area related to global public health.

0101	Elisabeth Maring, Muhiuddin Haider, Paul Bueno de Mesquita, Abigail Bickford	Seats (Total: 10)
	M 3:00pm - 3:50pm	CCC 1100

CPGH270 College Park Scholars: Global Public Health Education Abroad Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPGH200. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.

Education abroad experience in an interest area related to global public health.

0101	Paul Bueno de Mesquita, Muhiuddin Haider, Abigail Bickford, Elisabeth Maring	Seats (Total: 10)
	M 3:00pm - 3:50pm	CCC 1100

CPJT College Park Scholars-Justice and Legal Thought Spring 2016

CPJT230 Capstone for Justice and Legal Thought: Internship

Credits: 2 Grading Method: Regular

The capstone of the four-semester College Park Scholars Justice and Legal thought citation program is an exploration of justice and law within a rigorous academic and experiential framework. Students must develop and perform practicum internships in professional law related settings. In all settings, students must interact directly with legal professionals in law related fields and through law-related institutions under the supervision of legal professionals and program staff. In conjunction with the experiential component, students will synthesize their experience within the learning outcomes of the Justice and Legal Thought Program through an innovative final project culminating in a poster presentation.

0101	Jane Polcen, Erica Smith, Robert Koulisch	Seats (Total: 25)
	Contact instructor or department for details.	

CPJT240 Capstone for Justice and Legal Thought: Service-Learning

Credits: 2 Grading Method: Regular

The capstone of the four-semester College Park Scholars Justice and Legal Thought citation program is an exploration of justice and law within a rigorous academic and experiential framework. Students must develop and perform practicum volunteer experiences in professional law related settings. In all settings, students must interact directly with legal professionals in law related fields and through law-related institutions under the supervision of legal professionals and program staff. In conjunctions with the experiential component, students will synthesize their experience within the learning outcomes of the Justice and Legal Thought program through an innovative final project culminating in a poster presentation.

0101	Erica Smith, Jane Polcen, Robert Koulish	Seats (Total: 25)
Contact instructor or department for details.		

CPJT250

Capstone for Justice and Legal Thought: Research

Credits: 2 Grading Method: Regular

The capstone of the four-semester College Park Scholars Justice and Legal Thought citation program is an exploration of justice and law within a rigorous academic and experiential framework. Students must develop and perform applied research in a law related setting. Students must interact directly with legal professionals under the supervision of program staff. Students will synthesize their experience within the learning outcomes of the Justice and Legal Thought Program through an innovative final research project culminating in a poster presentation.

0101	Robert Koulish, Erica Smith, Jane Polcen	Seats (Total: 30)
Contact instructor or department for details.		

CPMS

College Park Scholars-Media, Self and Society

Spring 2016

CPMS101

College Park Scholars: Media, Self & Society First-Year Colloquium II

Credits: 1 Grading Method: Regular

Prerequisite: CPMS100. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Examination of the media's coverage of topical issues.

0101	Kalyani Chadha, James Baxter, Joanna Margueritte Nurmis	Seats (Total: 85)
	Th 12:30pm - 1:45pm	CCC 1205

CPMS230

College Park Scholars: Media, Self & Society - Internship Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Supervised internship project in an area related to media, self and society.

0101	Kalyani Chadha, Joanna Margueritte Nurmis	Seats (Total: 75)
Contact instructor or department for details.		

CPMS240 **College Park Scholars: Media, Self & Society - Service-Learning Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.

Supervised Service-Learning project in an area related to media, self and society.

0101	Kalyani Chadha, Joanna Margueritte Nurmis	Seats (Total: 25)
Contact instructor or department for details.		

CPPL **College Park Scholars-Public Leadership** **Spring 2016**

CPPL101 **College Park Scholars: Public Leadership First-Year Colloquium II**

Credits: 1 Grading Method: Regular

Prerequisite: CPPL100. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Continued examination of issues related to public leadership. Development of team, community-based learning project proposals.

0101	Jennifer Littlefield, Brendan McCormick, Jennifer Onyimba, Dylan Hart-Medina W 3:30pm - 4:45pm	Seats (Total: 35) CCC 1111
0201	Jennifer Onyimba, Brendan McCormick, Jennifer Littlefield, Dylan Hart-Medina W 3:30pm - 4:45pm	Seats (Total: 25) CCC 1105
0301	Jennifer Onyimba, Brendan McCormick, Jennifer Littlefield, Dylan Hart-Medina W 3:30pm - 4:45pm	Seats (Total: 30) CCC 1205

CPPL201**College Park Scholars: Public Leadership - Applied Leadership Capstone II**

Credits: 2

Grading Method: Regular

General Education: DSSP

Prerequisite: CPPL200. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.

Implementation and evaluation of team, community-based-learning projects.

0101	Jennifer Littlefield, Sarah Gordon	Seats (Total: 80)
	W 5:00pm - 6:00pm	CCC 1205
	Contact instructor or department for details.	

CPSA**College Park Scholars-Arts****Spring 2016****CPSA101****College Park Scholars: Arts First-Year Colloquium II**

Credits: 1-2

Grading Method: Regular

Prerequisite: CPSA100. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.

Introductory colloquium II: Arts workshops and Arts Festival.

0101	Harold Burgess, Eowyn Mays, Jessica Krenek	Seats (Total: 75)
	M 6:00pm - 8:00pm	CCC 1100

CPSA149**College Park Scholars: Arts Service-Learning Outreach**

Credits: 2

Grading Method: Regular

Service-Learning outreach to Prince George's County schools and non-profit agencies.

0101	Harold Burgess	Seats (Total: 20)
	Th 5:00pm - 7:00pm	CCC 1111

CPSA201**College Park Scholars: Arts Second-Year Colloquium II**

Credits: 1-2

Grading Method: Regular

Prerequisite: CPSA200. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.

Advanced colloquium II: Arts workshop and Arts Festival.

0101	Jessica Krenek, Harold Burgess	Seats (Total: 75)
	Tu 6:00pm - 8:00pm	CCC 1205

CPSA240 College Park Scholars: Arts Service-Learning Practicum

Credits: 2 Grading Method: Regular

Prerequisite: CPSA200. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 200, students will earn General Education Scholarship-in-Practice credit.

Supervised Service-Learning project in an area related to the arts.

0101	Harold Burgess	Seats (Total: 15)
	Th 5:00pm - 7:00pm	CCC 1111

CPSA250 College Park Scholars: Arts Research Practicum

Credits: 2 Grading Method: Regular

Prerequisite: CPSA200. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 200, students will earn General Education Scholarship-in-Practice credit.

Supervised research project in an area related to the arts.

0101	Harold Burgess, Jessica Krenek	Seats (Total: 15)
	Th 2:00pm - 2:50pm	CCC 1115
	Contact instructor or department for details.	
0201	Harold Burgess, Jessica Krenek	Seats (Total: 15)
	W 5:00pm - 5:50pm	CCC 1115
	Contact instructor or department for details.	
0301	Harold Burgess, Jessica Krenek	Seats (Total: 15)
	W 2:00pm - 2:50pm	CCC 1115
	Contact instructor or department for details.	
0401	Jessica Krenek, Harold Burgess	Seats (Total: 5)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

CPSA260 College Park Scholars: Arts Peer-Teaching Practicum

Credits: 2 Grading Method: Regular

Prerequisite: CPSA200. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 200, students will earn General Education Scholarship-in-Practice credit.

Supervised peer-teaching project in an area related to the arts.

0101	Jessica Krenek, Eowyn Mays, Harold Burgess Contact instructor or department for details.	Seats (Total: 10)
0201	Eowyn Mays, Harold Burgess, Jessica Krenek Contact instructor or department for details.	Seats (Total: 10)
0301	Harold Burgess, Eowyn Mays, Jessica Krenek Contact instructor or department for details.	Seats (Total: 10)

CPSD College Park Scholars-Science, Discovery & the Universe Spring 2016

CPSD100 College Park Scholars: Science, Discovery & the Universe First-Year Colloquium A

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of issues related to science, discovery and the universe.

0101	Alan Peel, Benjamin Miller Th 4:00pm - 5:20pm	Seats (Total: 45) CCC 1100
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CPSD101 College Park Scholars: Science, Discovery & the Universe First-Year Colloquium B

Credits: 1 Grading Method: Regular

Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program. Additional information: Both freshman colloquia (CPSD 100 and 101) are required for students to earn their College Park Scholars citations; however, they can be taken in any order during a student's first year.

Introductory colloquium: Examination of the intersection of astronomy and culture; and the roles of science, exploration and communication in the process of discovery.

0101	Benjamin Miller, Alan Peel	Seats (Total: 45)
	Th 4:00pm - 5:20pm	CCC 1205

CPSD230 College Park Scholars: Science, Discovery & the Universe - Internship Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPSD200. Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program.

Supervised internship project in an interest area related to science, discovery and the universe.

0101	Alan Peel	Seats (Total: 60)
	W 4:30pm - 5:50pm	CCC 1100

CPSD240 College Park Scholars: Science, Discovery & the Universe - Service-Learning Practicum

Credits: 1-3 Grading Method: Regular

Prerequisite: CPSD200. Restriction: Students must be enrolled in the College Park Scholars Science, Discovery & the Universe (CPSD) program.

Supervised Service-Learning project in an interest area related to science, discovery and the universe.

0101	Alan Peel	Seats (Total: 35)
	W 4:30pm - 5:50pm	CCC 1100

CPSF College Park Scholars-Life Sciences Spring 2016

CPSF101 College Park Scholars: Life Sciences First-Year Colloquium II

Credits: 1 Grading Method: Regular

Prerequisite: CPSF100. Restriction: Students must be enrolled in the College Park Scholars Life Sciences (CPSF) program.

Further examination of issues related to the life sciences.

0101	Reid Compton	Seats (Total: 100)
	W 3:30pm - 5:30pm	PLS 1140

CPSG College Park Scholars-Science and Global Change Spring 2016

CPSG101**College Park Scholars: Science & Global Change First-Year Colloquium II**

Credits: 1 Grading Method: Regular

Prerequisite: CPSG100. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Introductory colloquium II: Continued examination of issues related to science and global change.

0101	Thomas Holtz	Seats (Total: 91)
	Tu 3:30pm - 4:50pm	CCC 1100

CPSG230**College Park Scholars: Science & Global Change - Internship Practicum**

Credits: 1-3 Grading Method: Regular General Education: DSSP

Prerequisite: CPSG200. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Supervised internship in an interest area related to science and global change.

0101	John Merck, Thomas Holtz	Seats (Total: 75)
	Contact instructor or department for details.	

CPSG240**College Park Scholars: Science & Global Change - Service-Learning Practicum**

Credits: 1-3 Grading Method: Regular

Prerequisite: CPSG200. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Supervised Service-Learning experience in an interest area related to science and global change.

0101	Thomas Holtz, John Merck	Seats (Total: 25)
	Contact instructor or department for details.	

CPSG250**College Park Scholars: Science & Global Change - Research Practicum**

Credits: 1-3 Grading Method: Regular General Education: DSSP

Prerequisite: CPSG200. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.

Supervised research experience in an interest area related to science and global change.

0101	John Merck, Thomas Holtz	Seats (Total: 25)
	Contact instructor or department for details.	

CPSN101

College Park Scholars: International Studies First-Year Colloquium II

Credits: 1

Grading Method: Regular

General Education: DVCC

Prerequisite: CPSN100. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program. Additional information: When paired with the successful completion of CPSN 100, students will earn Diversity/Cultural Competence General Education credits.

Introductory colloquium II: Continued examination of issues related to international studies.

0101	James Glass, Allison Patch Tu 2:00pm - 3:15pm	Seats (Total: 20) CCC 1100
0102	Margaret McWeeney, James Glass Tu 2:00pm - 3:15pm	Seats (Total: 20) CBD 1140
0103	Felipe Westhelle, James Glass Tu 2:00pm - 3:15pm	Seats (Total: 20) CCC 1115
0104	Joseph Braun, James Glass Tu 2:00pm - 3:15pm	Seats (Total: 20) CCC 1200

CPSN230

College Park Scholars: International Studies - Internship Practicum

Credits: 3

Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised internship project in an area related to international studies.

0101	Felipe Westhelle, Joseph Braun, Allison Patch, Margaret McWeeney, James Glass Contact instructor or department for details.	Seats (Total: 40)
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CPSN240

College Park Scholars: International Studies - Service-Learning Practicum

Credits: 3

Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised Service-Learning project in an area related to international studies.

0101	James Glass, Margaret McWeeney, Allison Patch, Felipe Westhelle, Joseph Braun	Seats (Total: 15)
	Contact instructor or department for details.	

CPSN250

College Park Scholars: International Studies - Research Practicum

Credits: 3 Grading Method: Regular

Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.

Supervised research in an area related to international studies.

0101	Joseph Braun, Margaret McWeeney, Allison Patch, Felipe Westhelle, James Glass	Seats (Total: 25)
	Contact instructor or department for details.	

CPSP

College Park Scholars Program

Spring 2016

CPSP219L

College Park Scholars Second-Year Colloquium II

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Intermediate colloquium for specific, second year, College Park Scholar Program.

Restricted to College Park Scholars-Life Sciences.

0101	Reid Compton	Seats (Total: 25)
	Th 4:00pm - 6:00pm	BPS 1234
0201	Reid Compton	Seats (Total: 25)
	Tu 4:00pm - 6:00pm	PLS 1115
0301	Reid Compton	Seats (Total: 25)
	Th 4:00pm - 6:00pm	PLS 1115
0401	Reid Compton	Seats (Total: 23)
	Tu 4:00pm - 6:00pm	PLS 1172

CPSP239A

Practicum: Internship; Arts

Credits: 1-3 Grading Method: Regular

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars - Arts.

Contact department for information to register for this course.

CPSP239P Practicum: Internship; Public Leadership

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Supervised internship in interest area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars-Public Leadership.

0101	Jennifer Littlefield	Seats (Total: 30)
Contact instructor or department for details.		

CPSP249E Practicum: Service-Learning; Environment, Technology and Economy

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Supervised Service-Learning project in area related to the theme of the students' College Park Scholars program.

Restricted to College Park Scholars. Enrolled students are required to participate in the College Park Scholars Academic Showcase. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Nicole Mogul, Mira Azarm	Seats (Total: 30)
	M 4:00pm - 4:50pm	CCC 1111
	Tu 5:00pm - 6:45pm	CBD 1140 Lab

CPSP259J Practicum: Research; Media, Self and Society

Credits: 1-3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Supervised research project in interest area related to the students' College Park Scholars program.

Restricted to College Park Scholars-Media, Self and Society.

0101	Kalyani Chadha	Seats (Total: 10)
Contact instructor or department for details.		

CPSP269G Practicum: Peer Teaching; Science and Global Change

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Supervised peer teaching in students' College Park Scholars program.

Contact department for information to register for this course.

CPSP339 Advanced Practicum: Internship

(Perm req)

Credits: 1-3 Grading Method: Regular General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

Contact department for information to register for this course.

CPSP339J Advanced Practicum: Internship

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.

0101	Kalyani Chadha	Seats (Total: 10)
Contact instructor or department for details.		

CPSP349A Advanced Practicum: Service Learning

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised Service-Learning project.

Contact department for information to register for this course.

CPSP349D Advanced Practicum: Service Learning; Science, Discovery, and the Universe

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced supervised Service-Learning project.

Contact department for information to register for this course.

CPSP349G Advanced Practicum: Service Learning; Science and Global Change

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced supervised Service-Learning project.

Contact department for information to register for this course.

CPSP349T Advanced Practicum: Service Learning; Science, Technology, and Society

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised Service-Learning project.

Contact department for information to register for this course.

CPSP359B Advanced Practicum: Research

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

Contact department for information to register for this course.

CPSP359D Advanced Practicum: Research

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

0101	Alan Peel	Seats (Total: 10)
Contact instructor or department for details.		

CPSP359N Advanced Practicum: Research; International Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

0101	Joseph Braun, Felipe Westhelle, Margaret McWeeney, James Glass, Allison Patch	Seats (Total: 35)
Contact instructor or department for details.		

CPSP359S Advanced Practicum: Research; Discovery Research

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Advanced supervised internship experience.

Restricted to College Park Scholars. Enrolled students are required to participate in the College Park Scholars Academic Showcase, from 4 p.m. to 6 p.m, Friday, May 3, 2013.

0101	David Eubanks	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CCC 1111

CPSP359W Advanced Practicum: Research; Discovery Research at Library of Congress

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Advanced supervised internship experience.

0101	Robert Garber	Seats (Total: 10)
	Tu 11:00am - 12:15pm	CCC 1200
	Th 8:30am - 12:30pm	Location: TBA Lab

CPSP369A Advanced Practicum: Peer Teaching; Arts

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369D Advanced Practicum: Peer Teaching

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369E Advanced Practicum: Peer Teaching

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

0101	Becky Archer, Elizabeth Schotman	Seats (Total: 1)
	Contact instructor or department for details.	

CPSP369G Advanced Practicum: Peer Teaching; Science and Global Change

(Perm req)

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369P Advanced Practicum: Peer Teaching; Public Leadership

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP369T Advanced Practicum: Peer Teaching; Science, Technology, and Society

Credits: 1-3 Grading Method: Regular

Supervised advanced practicum in peer instruction.

Contact department for information to register for this course.

CPSP379B Advanced Practicum: Study Abroad; Dubai: Global Immersion Experience

Credits: 3 Grading Method: Regular

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP379D Advanced Practicum: Study Abroad; United Arab Emirates: Global Immersion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced, supervised study-abroad experience.

Contact department for information to register for this course.

CPSP388B Advanced Special Topics in College Park Scholars; Innovation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.

Contact department for information to register for this course.

**CPSS College Park Scholars-Science,
Technology and Society**

Spring 2016

CPSS101 College Park Scholars: Science, Technology & Society First-Year Colloquium II

Credits: 1 Grading Method: Regular

Prerequisite: CPSS100. Restriction: Students must be enrolled in the College Park Scholars Science, Technology & Society (CPSS) program.

Continued examination of issues related to science, technology and society.

0101	David Tomblin	Seats (Total: 90)
	M 3:30pm - 4:50pm	CCC 1205

CPSS225 College Park Scholars Capstone: Science, Technology, and Society

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Prerequisite: CPSS100. Restriction: Must be in the College Park Scholars Science, Technology & Society (CPSS) program. Formerly: CPSP227.

Exploration and understanding of ways science and technology shape and are shaped by society.

0101	Nicole Mogul	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CCC 1111
0201	David Tomblin	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	CCC 1105

CPSS230 College Park Scholars: Science, Technology & Society - Internship Practicum

Credits: 1 Grading Method: Regular

Prerequisite: CPSS101. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program.

Supervised internship in an area related to science, technology and society.

0101	David Tomblin	Seats (Total: 20)
	Th 3:40pm - 5:00pm	CCC 1105

CPSS240 College Park Scholars: Science, Technology & Society - Service-Learning Practicum

Credits: 3 Grading Method: Regular General Education: DSSP, SCIS

Prerequisite: CPSS101; or permission of instructor. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program; or permission of instructor.

Supervised Service-Learning practicum in issues related to science, technology and society.

Robotics Service-Learning in K-12 Schools.

0101	Matthew Aruch	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	CCC 1205
0201	Matthew Aruch	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	CCC 1200

CPSS260**College Park Scholars: Science, Technology & Society - Peer-Teaching Practicum**

Credits: 1 Grading Method: Regular

Prerequisite: CPSS101. Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program.

Supervised peer teaching in science, technology and society.

0101	Matthew Aruch	Seats (Total: 20)
	W 3:30pm - 5:00pm	CBD 1140

DANC**Dance****Spring 2016**

DANC109**Improvisation I**

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

An introduction to the process of spontaneous movement discovery involving solo and group movement experiences.

Prerequisite: permission of department. Students must pay \$25 lab fee.

TD01	Lynne Price	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	PAC 1912 Lab

DANC128**Fundamentals of Ballet**

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Introduction to ballet technique and terminology for the beginning student.

Students must pay \$25 lab fee.

TD01	Jennifer Graham	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	PKT 2102 Lab

DANC138F World Dance Forms; Flamenco

Credits: 2 Grading Method: Regular, , D
Pass-Fail, Audit

Movement course. Traditional dances and music of selected cultures.

Students must pay a \$25.00 lab fee.

TD01	Miriam Phillips	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm	PAC 1908	Lab

DANC138P World Dance Forms; Hip Hop

Credits: 2 Grading Method: Regular, , D
Pass-Fail, Audit

Movement course. Traditional dances and music of selected cultures.

Students must pay \$25 lab fee.

TD01	Christopher Law	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	PAC 1912	Lab
TD02	Christopher Law	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	PAC 1610	Lab

DANC138W World Dance Forms; West African Dance

Credits: 2 Grading Method: Regular, , D
Pass-Fail, Audit

Movement course. Traditional dances and music of selected cultures.

Students must pay \$25 lab fee.

TD01	Sinclair Emoghene	Seats (Total: 25)	
	TuTh 2:00pm - 3:15pm	PAC 1912	
TD02	Sinclair Emoghene	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	PAC 1912	

DANC148 Fundamentals of Modern Dance

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Introduction to modern dance with emphasis on the development of fundamental movement skills.

Students must pay a \$25.00 lab fee.

TD01	Meghan Bowden MW 3:30pm - 4:45pm	Seats (Total: 30) PAC 1912	Lab
TD02	Colette Krogol TuTh 12:30pm - 1:45pm	Seats (Total: 30) PAC 1610	Lab
TD03	Matthew Reeves TuTh 11:00am - 12:15pm	Seats (Total: 30) PAC 1610	Lab
TD04	Curtis Stedge MW 11:00am - 12:15pm	Seats (Total: 30) PAC 1908	Lab

DANC149 Fundamentals of Modern Dance II

Credits: 2 Grading Method: Regular

Continuation of the development of axial and locomotor movement skills with emphasis on the development of functional alignment, musicality, range of movement, coordination, and movement memory.

Students must pay \$25 lab fee.

TD01	Sarah Oppenheim TuTh 9:30am - 10:45am	Seats (Total: 25) PAC 1912	Lab
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DANC199 Practicum in Choreography, Production and Performance I

(Perm req)

Credits: 1-2 Grading Method: Regular,
Pass-Fail, Audit

Choreography, production, and performance of student works, both on and off campus.

Contact department for information to register for this course.

DANC200 Introduction to Dance

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

0101	Sarah Oppenheim TuTh 12:30pm - 1:45pm	Seats (Total: 25) HBK 0108
0201	Meghan Bowden TuTh 2:00pm - 3:15pm	Seats (Total: 25) HBK 0108
0301	Curtis Stedge TuTh 3:30pm - 4:45pm	Seats (Total: 25) HBK 0108

DANC207

The Creative Process

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: DANC109. Restriction: Permission of ARHU-Dance department.

Explorations in movement, music, words, objects, and environments through improvisation and choreographic problem solving.

Students must pay a \$25.00 lab fee.

TD01	Patrik Widrig MWF 2:00pm - 3:20pm	Seats (Total: 15) PAC 1610	Lab
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DANC209

Dance Composition

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Exploration of the structural elements of dance composition.

Prerequisite: DANC207 and permission of department. Students must pay \$25 lab fee.

TD01	Christopher Morgan MWF 2:00pm - 3:20pm	Seats (Total: 15) PAC 1912	Lab
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DANC218

Foundations of Technique I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of heightened body awareness, breath support, dynamic alignment, and spatial awareness. Focus on rhythmic clarity and musicality.

Prerequisite: permission of department.

TD01	Katie Sopoci Drake	Seats (Total: 17)	
	MWF 9:30am - 10:50am	PAC 1908	Lab

DANC219 Foundations of Technique II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Continuation of the elements addressed in DANC218 with an added focus o momentum, the use of counter-tension, stability/mobility, suspension, and dynamic range.

Prerequisite: DANC218 and permission of department.

TD01	Christopher Morgan	Seats (Total: 8)	
	MWF 11:00am - 12:20pm	PAC 1912	Lab
TD02	Katie Sopoci Drake	Seats (Total: 8)	
	MWF 9:30am - 10:50am	PAC 1908	Lab

DANC228 Ballet I

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.

Students must pay a \$25.00 lab fee.

TD01	Julia Smith	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	PAC 1908	Lab

DANC229 Ballet II

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Continuation of DANC228.

Students must pay a \$25.00 lab fee.

TD01	Mané Rebelo-Plaut	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	PAC 1908	Lab

DANC283 Foundations of Dance History

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-Dance department.

Introduction to the historical throughlines of dance theory. Analysis of the structure, context, and content of dance works.

0101	Miriam Phillips	Seats (Total: 18)
	TuTh 9:30am - 10:45am	PAC 1809

DANC299 Practicum in Choreography, Production and Performance II

(Perm req) Grading Method: Regular,
Credits: 1-3 Pass-Fail, Audit

Continuation of DANC199.

Contact department for information to register for this course.

DANC310 Dance Lighting

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail, Audit

Prerequisite: DANC210.

Two lectures and two laboratory periods per week. Theory and practice of stage lighting with specific reference to designing for dance.

TD01	Paul Jackson	Seats (Total: 8)
	TuTh 9:30am - 10:45am	PAC 1610

DANC318 Foundations of Technique III

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail, Audit

Continuation of the elements addressed in DANC219 with an added focus on off-verticality, spirals, complex level changes, more complex and extended phrasing, responsiveness to accompaniment, vocalization.

Prerequisite: DANC219 an permission of department. Students must pay \$25 lab fee.

TD01	Alvin Mayes	Seats (Total: 8)
	MWF 12:30pm - 1:50pm	PAC 1912 Lab

TD02	Christopher Morgan	Seats (Total: 10)	
	MWF 11:00am - 12:20pm	PAC 1912	Lab

DANC319 Foundations of Technique IV

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Continuation of the elements addressed in DANC318 with an added focus on movement subtlety and complexity, and stylistic demands.

Prerequisite: DANC318 and permission of department. Students must pay \$25 lab fee.

TD01	Alvin Mayes	Seats (Total: 8)	
	MWF 12:30pm - 1:50pm	PAC 1912	Lab

DANC328 Ballet III; Ballet III for Majors

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Execution of the vocabulary of ballet movement with technical accuracy.

Students must pay a \$25.00 lab fee.

TD01	Mané Rebelo-Plaut	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC329 Ballet IV; Ballet IV for Majors

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Continuation of DANC328.

Students must pay a \$25.00 lab fee.

TD01	Mané Rebelo-Plaut	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	PAC 1908	Lab

DANC386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

DANC398 Directed Studies in Dance

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

DANC398L Directed Studies in Dance; Senior Summary and a Life Beyond

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This upper-level course will focus on assessing the accumulation of information gleaned from life experiences in order to illuminate potential future pathways. Students will be encouraged to identify aspirations and effect direct and immediate action towards achieving goals. Students will be building portfolios and creating performance works throughout the semester. The class will host a variety of curated guest artists, representing a range of career options, to share stories of their personal journeys as well as conduct exercises to help students to clarify their personal voices.

0101	Adriane Fang	Seats (Total: 12)
	MW 3:30pm - 4:45pm	PAC 1908

DANC398Y Directed Studies in Dance; Yoga, Improvisation, and Embodied Metaphors: Investigating Philosophy through Movement

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

This course will use yogic asana practices and modern dance improvisational structures to foster a body-mind centering environment where students will explore philosophical concepts and discover new methods of problem-solving. Students must pay a \$25 lab fee.

TD01	Colette Krogol, Matthew Reeves	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PKT 2102
TD02	Matthew Reeves, Colette Krogol	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	PKT 2102

DANC399 Practicum in Choreography, Production and Performance III

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Continuation of DANC299.

Prerequisite: DANC 299.

Contact department for information to register for this course.

DANC405

Dance Education and Policy

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-Dance department.

Curricula in dance in K-12 settings, classroom management, assessment/grading, and best practices in dance education in public schools. Current research and policy issues are included. This course counts towards teacher certification in the State of Maryland.

Students must pay a \$25.00 lab fee.

TD01	Karen Bradley	Seats (Total: 10)
	MW 2:00pm - 3:15pm	PAC 1924

DANC420

Partnering

(Perm req)

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-Dance department.

Elements of contemporary partnering including weight sharing, counter balancing, momentum/leverage, lifting and moving responsively.

Students must pay a \$25.00 lab fee.

TD01	Alvin Mayes	Seats (Total: 15)
	TuTh 2:00pm - 3:20pm	PAC 1611

DANC448

Modern Dance V

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Complex phrases of modern dance movement with emphasis on articulation and expression.

Prerequisite: DANC319 and audition. Students must pay a \$25.00 lab fee.

TD01	Adriane Fang	Seats (Total: 10)	
	MWF 9:30am - 10:50am	PAC 1912	Lab

DANC449**Modern Dance VI**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Continuation of DANC448.

Prerequisite: DANC448. Students must pay a \$25.00 lab fee.

TD01	Adriane Fang	Seats (Total: 6)	
	MWF 9:30am - 10:50am	PAC 1912	Lab

DANC466**Laban Movement Analysis**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Introduction to Rudolf Laban's system of qualitative movement analysis in relation to understanding personal movement style. Application to dance performance, teaching, composition and research.

Students must pay a \$25.00 lab fee.

TD01	Katie Sopoci Drake	Seats (Total: 12)	
	TuTh 11:00am - 12:20pm	PAC 1611	Lab

DANC488**Project-Based Learning; Project-Based Learning**

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

A specific project, is addressed, in dance from the perspectives of the investigator, the creator/choreographer, and the performer. Projects are cross-disciplinary and/or cross-cultural, and may involve both on- and off-campus experiences.

Students must pay a \$25.00 lab fee.

TD01	Alvin Mayes	Seats (Total: 16)	
	TuTh 3:30pm - 6:30pm	PAC 1908	

DANC499**Practicum in Choreography, Production and Performance IV**

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Advanced workshop in dance presentation, including performing, production and planned field experiences.

Prerequisite: DANC 399.

Contact department for information to register for this course.

DANC611 Dance Technology and Media

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Project-based development of media and technological support for dance performance, archiving, and portfolio design, development and implementation.

Students must pay a \$25.00 lab fee.

TD01	Paul Jackson	Seats (Total: 5)
	MW 1:00pm - 2:15pm	PAC 1611

DANC647 Movement Practice

Credits: 2

Grading Method: Regular

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Experiential studio work that generates common movement vocabulary and innovations of same in a shared, faculty-led exploration of movement for the purpose of generating vocabulary for technique, choreography, and pedagogy.

0101	Karen Bradley	Seats (Total: 5)
Contact instructor or department for details.		

DANC648 Advanced Modern Dance Technique I

Credits: 2

Grading Method: Regular,
Audit

Professional level training in contemporary dance techniques.

Students must pay a \$25.00 lab fee.

TD01	Adriane Fang	Seats (Total: 5)	
	MWF 9:30am - 10:50am	PAC 1912	Lab

DANC649 Advanced Modern Dance Technique II

Credits: 2

Grading Method: Regular,
Audit

A continuation of DANC 648.

Students must pay a \$25.00 lab fee.

TD01	Adriane Fang	Seats (Total: 5)	
	MWF 9:30am - 10:50am	PAC 1912	Lab

DANC678 Individual Movement Practice

Credits: 2 Grading Method: Regular

Students in consultation with the adviser, propose a specific movement practice and can select the practice from the range of technique offerings in the program. Additional work in documenting and providing evidence of growth towards individual outcomes is required.

0101	Karen Bradley	Seats (Total: 5)
	Contact instructor or department for details.	

DANC679 Graduate Dance Performance

Credits: 1-3 Grading Method: Regular,
Audit

An advanced performance course focusing on the restagings from noted scores of the choreographic works of significant artists in the field.

0101	Patrik Widrig	Seats (Total: 2)
	Contact instructor or department for details.	
0201	Sara Pearson	Seats (Total: 2)
	Contact instructor or department for details.	
0301	Instructor: TBA	Seats (Total: 2)
	Contact instructor or department for details.	
0401	Alvin Mayes	Seats (Total: 2)
	Contact instructor or department for details.	
0501	Paul Jackson	Seats (Total: 2)
	Contact instructor or department for details.	
0601	Sharon Mansur	Seats (Total: 2)
	Contact instructor or department for details.	
0701	Karen Bradley	Seats (Total: 2)
	Contact instructor or department for details.	

0801	Miriam Phillips	Seats (Total: 2)
	Contact instructor or department for details.	
1001	Adriane Fang	Seats (Total: 2)
	Contact instructor or department for details.	

DANC698 Independent Study in Dance

Credits: 1-3 Grading Method: Regular,
Audit

Directed independent study in theoretical topics.

Contact department for information to register for this course.

DANC705 Arts Education

Credits: 3 Grading Method: Regular,
Audit

History of arts education in the U.S., recent policy changes and trends current and recent research findings, proposed legislation at the state and federal level and the relationship of research designed to, in part, prepare students to be K-12 arts education and/or researchers and/or policy professionals.

0101	Karen Bradley	Seats (Total: 2)
	Class time/details on ELMs	ONLINE
IH60	Karen Bradley	Seats (Total: 6)
	Class time/details on ELMs	ONLINE

DANC708 Choreography II; Collaborative Work

Credits: 3 Grading Method: Regular,
Audit

Collaborative work across disciplines and genres.

Students must pay a \$25.00 lab fee.

TD01	Sara Pearson	Seats (Total: 5)
	MWF 11:00am - 12:50pm	PAC 1610

DANC766 Movement Observation and Analysis

Credits: 2 Grading Method: Regular,
Audit

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Aspects of cultural and nonverbal analysis, developmental movement, kinesiological analysis, Laban Movement Analysis, with the goal of developing the student/teacher's ability to observe macro and micro levels of detail.

Students must pay a \$25.00 lab fee.

TD01	Karen Bradley	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	PAC 1924

DANC777 Internship in Dance

(Perm req)

Credits: 6 Grading Method: Sat-Fail

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.

0701	Karen Bradley	Seats (Total: 5)
	Contact instructor or department for details.	

DANC784 Dance in a Global Context

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Topics that illuminate dance in global context and provides an overview of methods, challenges and perspectives to the study of dance cross-culturally will be considered. Simultaneously, surveys select dance practices spanning many geographical areas, and offers insight into the diverse social, cultural, religious, and political environments from which dance extends.

0101	Miriam Phillips	Seats (Total: 5)
	MW 3:30pm - 4:50pm	PAC 1924

DANC788 Master's Tutorial for Choreography; Graduate Tutorial

Credits: 1-3 Grading Method: Regular,
Audit

Supervised production and presentation of a significant choreographic project.

Contact department for information to register for this course.

DANC789

Directed Study in Dance Theory; Directed Study in Dance Theory

Credits: 2-6 Grading Method: Regular,
Audit

Advanced directed study in dance history, theory or criticism culminating in a paper for presentation or publication.

0101	Patrik Widrig	Seats (Total: 6)
	Contact instructor or department for details.	
0201	Sara Pearson	Seats (Total: 6)
	Contact instructor or department for details.	
0301	Anne Warren	Seats (Total: 6)
	Contact instructor or department for details.	
0401	Alvin Mayes	Seats (Total: 6)
	Contact instructor or department for details.	
0501	Paul Jackson	Seats (Total: 6)
	Contact instructor or department for details.	
0601	Sharon Mansur	Seats (Total: 6)
	Contact instructor or department for details.	
0701	Karen Bradley	Seats (Total: 6)
	Contact instructor or department for details.	
0801	Miriam Phillips	Seats (Total: 6)
	Contact instructor or department for details.	
0901	Instructor: TBA	Seats (Total: 6)
	Contact instructor or department for details.	
1001	Adriane Fang	Seats (Total: 6)
	Contact instructor or department for details.	
1601	Daniel Conway	Seats (Total: 10)
	Contact instructor or department for details.	

DANC799

Master's Thesis Project

Credits: 1-6 Grading Method: Regular, Sat-Fail
 Contact department for information to register for this course.

EALL East Asian Languages and Literatures Spring 2016

EALL300 The Languages of East Asia

Credits: 3 Grading Method: Regular, Pass-Fail, Audit, D General Education: DVUP

A survey of Chinese, Japanese, and Korean, and the languages of other East Asian nationalities. Provides a basic understanding of the structures of these languages. Topics covered include the characterizing features; the relationships of the languages to each other; the geographical, social, and historical settings. No knowledge of Asian languages is required. Taught in English.

0101	Samuel Ramsey	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	JMZ 2206

ECON Economics Spring 2016

ECON111 Thinking Like an Economist

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Restriction: Sophomore standing or lower; or permission of BSOS-Economics department.

An introduction to the modes of thought of economics. Use of simple standard tools of economics to analyze important problems that arise frequently in public policy, the news media, and in daily life. An emphasis on how economists predict what choices societies make and how economists analyze whether those are good choices. Practical application of a variety of economic tools leading to a focus on the essential unity underlying these analytical tools, viewing economics as a discipline that applies a core methodology in different ways in different situations.

0101	Peter Murrell	Seats (Total: 20)
	MW 11:00am - 11:50am	SHM 2102
	F 9:00am - 9:50am	JMZ 0120 Discussion
0102	Peter Murrell	Seats (Total: 20)
	MW 11:00am - 11:50am	SHM 2102
	F 10:00am - 10:50am	KEY 0120 Discussion

0103	Peter Murrell	Seats (Total: 20)	
	MW 11:00am - 11:50am	SHM 2102	
	F 11:00am - 11:50am	JMZ 0120	Discussion
0104	Peter Murrell	Seats (Total: 20)	
	MW 11:00am - 11:50am	SHM 2102	
	F 12:00pm - 12:50pm	SQH 1111	Discussion
0105	Peter Murrell	Seats (Total: 20)	
	MW 11:00am - 11:50am	SHM 2102	
	F 1:00pm - 1:50pm	JMZ 1226	Discussion
0106	Peter Murrell	Seats (Total: 20)	
	MW 11:00am - 11:50am	SHM 2102	
	F 2:00pm - 2:50pm	ASY 3219	Discussion

ECON200

Principles of Micro-Economics

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH110; or must have math eligibility of MATH111 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

BL01	Robert Schwab	Seats (Total: 440)	
	TuTh 11:00am - 12:15pm	TYD 0130	
	F 11:00am - 11:50am	TYD 0130	Discussion
<i>Blended Learning courses combine face-to-face and online interactions.</i>			
BL02	Robert Schwab	Seats (Total: 440)	
	TuTh 12:30pm - 1:45pm	TYD 0130	
	F 12:00pm - 12:50pm	TYD 0130	Discussion
<i>Blended Learning courses combine face-to-face and online interactions.</i>			

ECON201

Principles of Macro-Economics

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH110; or must have math eligibility of MATH111 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

0101	John Neri	Seats (Total: 440)	
	TuTh 2:00pm - 3:15pm	TYD 0130	
	F 10:00am - 10:50am	TYD 0130	Discussion
0201	Naveen Sarna	Seats (Total: 440)	
	TuTh 3:30pm - 4:45pm	TYD 0130	
	F 1:00pm - 1:50pm	TYD 0130	Discussion

ECON230

Applied Economic Statistics

Credits: 3 Grading Method: Regular

Prerequisite: Must have math eligibility of MATH111 or higher; or minimum grade of C- in MATH110. And minimum grade of C- in ECON200 and ECON201. Recommended: Students should already have basic familiarity with Microsoft Excel or similar spreadsheet software. Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introductory course to develop understanding of statistical concepts used in applied economics. Students will acquire skills needed to calculate and interpret statistical concepts, including descriptive statistics, probability, discrete and continuous distributions, sampling, point and interval estimations, hypothesis testing, basic analysis of variance, and simple linear regression models. Students will apply these concepts to data using both handheld calculators and spreadsheets(Excel), and students will be introduced to an econometric software package such as SPSS or SAS or R.

0101	Satyendra Verma	Seats (Total: 120)	
	MWF 12:00pm - 12:50pm	MMH 1400	
0201	Satyendra Verma	Seats (Total: 120)	
	MWF 1:00pm - 1:50pm	MMH 1400	

ECON300

Methods and Tools for Economic Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and 1 course with a minimum grade of C- from (MATH140, MATH220, MATH130). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed MATH240 or MATH241.

Covers several mathematics techniques and demonstrates their application to a wide variety of models and problems in both microeconomic and macroeconomic analysis. Reviews concepts from algebra and elementary calculus and introduces components of multivariable calculus, linear algebra and differential equations.

0101	Nicholas Montgomery	Seats (Total: 20)	
	MW 3:00pm - 3:50pm	SHM 2102	
	F 9:00am - 9:50am	JMZ 3203	Discussion
0103	Nicholas Montgomery	Seats (Total: 20)	
	MW 3:00pm - 3:50pm	SHM 2102	
	F 10:00am - 10:50am	BPS 1228	Discussion
0105	Nicholas Montgomery	Seats (Total: 20)	
	MW 3:00pm - 3:50pm	SHM 2102	
	F 12:00pm - 12:50pm	TYD 2111	Discussion
0106	Nicholas Montgomery	Seats (Total: 20)	
	MW 3:00pm - 3:50pm	SHM 2102	
	F 12:00pm - 12:50pm	TYD 2111	Discussion

ECON305 Intermediate Macroeconomic Theory and Policy

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and 1 course with a minimum grade of C- from (MATH220, MATH140, MATH130). Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

0101	John Neri	Seats (Total: 240)	
	TuTh 11:00am - 12:15pm	VMH 1524	

ECON306 Intermediate Microeconomic Theory & Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201; and 1 course with a minimum grade of C- from (MATH220, MATH140, MATH130). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

0101	Peter Coughlin	Seats (Total: 180)
	TuTh 2:00pm - 3:15pm	SHM 2102
0201	Peter Coughlin	Seats (Total: 160)
	TuTh 3:30pm - 4:45pm	SHM 2102

ECON310 European Economic History

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200.

The evolution of the capitalist system from its medieval origins to the present. Emphasis on dynamic forces of cumulative change in capitalism, including capital accumulation, technology, expansion of markets, the corporate form of private property in the means of production, and the relation of capitalism to war and revolution.

Contact department for information to register for this course.

ECON311 American Economic History Before the Civil War

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Restriction: Must be in a major within BSOS-Economics department.

Economic concepts are used to analyze various aspects of the founding and early history of the U.S., including the British settlement of the North American colonies, the economics of the American Revolutionary war, the writing of the Constitution, the development of financial markets, policies on public lands and the spread of western agriculture, slavery, banking, and early industrialization.

0101	John Wallis	Seats (Total: 180)
	TuTh 11:00am - 12:15pm	LEF 2205

ECON314 Economic History, Development and Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON200 and ECON201.

Study abroad in the economic history, institutional development, and recent economic policy problems of selected areas.

Contact department for information to register for this course.

ECON315 Economic Development of Underdeveloped Areas

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

0101	Stefania Scandizzo	Seats (Total: 40)
	MWF 10:00am - 10:50am	TYD 0101
0201	Stefania Scandizzo	Seats (Total: 40)
	MWF 11:00am - 11:50am	TYD 0101

ECON317 Global Economic Policies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Restriction: Must be in a major within BSOS-Economics department; or permission of BSOS-Economics department. Credit only granted for: ECON398C or ECON317. Formerly: ECON398C.

Analysis of policy options and debates on fostering economic growth and development in a global economy where national boundaries are no longer relevant. Topics covered will include real loanable funds markets in both local and international contexts during normal conditions and during financial crises, the design of trade and industrial policies, and the role of the World Bank, IMF, WTO, and other international agencies as well as regional and bilateral trade agreements. Emerging economies will be emphasized.

0101	Naveen Sarna	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	TYD 1132
0201	Naveen Sarna	Seats (Total: 40)
	TuTh 5:00pm - 6:15pm	TYD 0111

ECON321**Economic Statistics**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON201 and ECON200; and minimum grade of C- in MATH141. Recommended: STAT100. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introduction to the use of statistics in economics. Topics include: Probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation.

0301	Sebastian Galiani	Seats (Total: 70)
	MW 9:30am - 10:45am	TYD 1101

ECON325**Intermediate Macroeconomic Analysis**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON305 or ECON325.

Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.

0101	Martina Copelman	Seats (Total: 30)
	MW 11:00am - 11:50am	TYD 0117
	F 9:00am - 9:50am	LEF 1201 Discussion
0102	Martina Copelman	Seats (Total: 30)
	MW 11:00am - 11:50am	TYD 0117
	F 11:00am - 11:50am	SQH 1107 Discussion
0104	Martina Copelman	Seats (Total: 30)
	MW 11:00am - 11:50am	TYD 0117
	F 12:00pm - 12:50pm	SQH 1101 Discussion
0201	Martina Copelman	Seats (Total: 30)
	MW 10:00am - 10:50am	TYD 0117
	F 10:00am - 10:50am	TLF 1101 Discussion

0202	Martina Copelman	Seats (Total: 30)	
	MW 10:00am - 10:50am	TYD 0117	
	F 1:00pm - 1:50pm	LEF 1201	Discussion
0203	Martina Copelman	Seats (Total: 30)	
	MW 10:00am - 10:50am	TYD 0117	
	F 11:00am - 11:50am	LEF 1220	Discussion

ECON326

Intermediate Microeconomic Analysis

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200, ECON201, and MATH141. Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON306, ECON326, AREC326, or AREC389M.

Analysis of economic decision-making by individual buyers and sellers, and resulting market outcomes, with emphasis on theoretical rigor. The efficient properties of perfect competition are examined, followed by consideration of market power, externalities, and asymmetric information.

0101	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 9:00am - 9:50am	SQH 2120	Discussion
0102	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 11:00am - 11:50am	SQH 2120	Discussion
0103	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 12:00pm - 12:50pm	TYD 1108	Discussion
0104	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 1:00pm - 1:50pm	TYD 1114	Discussion
0105	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 10:00am - 10:50am	SQH 2120	Discussion

0106	Melissa Kearney	Seats (Total: 27)	
	MW 11:00am - 11:50am	JMZ 0220	
	F 11:00am - 11:50am	SQH 1105	Discussion

ECON330 Money and Banking

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200.

The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.

0101	John Neri	Seats (Total: 300)	
	TuTh 9:30am - 10:45am	TYD 0130	

ECON340 International Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON201 and ECON200. Credit only granted for: ECON340 or ECON441.

Covers economic models of international transactions, exchange rates, and balance of payments. Analysis of policies of protection, devaluation, and exchange rate stabilization and their consequences.

Contact department for information to register for this course.

ECON358E Special Topics in Study Abroad III; Environmental Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON358T Special Topics in Study Abroad III; Behavior and Incentives in Economics: The Case of Soccer

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON386 Experiential Learning

(Perm req)

Credits: 3

Grading Method: Sat-Fail

Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.

See Department Advising Office for course eligibility, course requirements, and application information.

Contact department for information to register for this course.

ECON397

Honors Thesis

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ECON396. Restriction: Must be a candidate for honors in economics.

General supervision will be provided through assembled meetings with the professor in charge of the course.

0101	Nuno Limao	Seats (Total: 9)
	TuTh 9:30am - 10:45am	TYD 4118C

ECON398E

Topics in Economics; Environmental Economics

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Credit granted for only one of the following: ECON381, ECON398E, or ECON481.

Contact department for information to register for this course.

ECON398H

Topics in Economics; UK Economy & Financial Systems

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398I

Topics in Economics; Urban and Regional Economics

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Description: Restricted to ECON majors only. Prerequisites: One course with a minimum grade of C- from (ECON321 or STAT400); and minimum grade of C- in ECON326.

0101	Nicholas Montgomery	Seats (Total: 38)
	MWF 10:00am - 10:50am	TYD 1118
0201	Nicholas Montgomery	Seats (Total: 38)
	MWF 11:00am - 11:50am	TYD 1118

ECON398K Topics in Economics; Competitive Market Structures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Prerequisite: ECON200.

Contact department for information to register for this course.

ECON398L Topics in Economics; The British Economy and Financial System

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON398M Topics in Economics; Economics of Employment

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Prerequisites: ECON200 and ECON201.

Contact department for information to register for this course.

ECON398Z Topics in Economics; Business Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.

Contact department for information to register for this course.

ECON399 Individual Readings and Research For Undergraduates

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Individual Instruction course: contact department or instructor to obtain section number. Open only to students who have previously earned 6 or more credits in 400-level economics courses.

Permission of instructor must be arranged in advance. Open only to students who have previously earned 6 or more credits in upper division economics courses.

Contact department for information to register for this course.

ECON399M Individual Readings and Research For Undergraduates; Economy and Society

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Individual Instruction course: contact department or instructor to obtain section number. Open only to students who have previously earned 6 or more credits in 400-level economics courses.

Contact department for information to register for this course.

ECON401 Current Issues in American Economic Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Recommended: Prior experience with Microsoft Excel or similar spreadsheet software. Restriction: Must be in Economics Bachelor of Arts program.

Analysis of current economic problems and public policies. Topics include increasing competitiveness, mitigating poverty, addressing harmful effects of income inequality, promoting environmental sustainability, and facilitating economic stability and growth.

0101	John Sabelhaus	Seats (Total: 20)
	TuTh 8:00am - 9:15am	TYD 1102

0201	Erin Moody	Seats (Total: 20)
	W 6:00pm - 8:40pm	TYD 1108

ECON407 Advanced Macroeconomics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department.

An in-depth analysis of current issues in macroeconomic theory and policy. Topics covered include: 1. alternative perspectives on macroeconomics including monetarism, new classical equilibrium models, rational expectations, and real business cycle models; 2. long term growth, the slowdown in productivity growth, and concerns about U.S. competitiveness; 3. the effectiveness of macroeconomic policy in an open economy; 4. the effects of finance on the real sector.

0201	Martina Copelman	Seats (Total: 45)
	MWF 1:00pm - 1:50pm	TYD 1132

ECON414 Game Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: CMSC474, ECON406, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

0201	Gustavo Saraiva	Seats (Total: 38)
	TuTh 11:00am - 12:15pm	HBK 0105
0301	Robert Schwab	Seats (Total: 70)
	TuTh 8:00am - 9:15am	TYD 2109

ECON416 Theory of Economic Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON315 or ECON416.

Economic theory of the developing nations; role of innovation, capital formation, resources, institutions, trade and exchange rates, and governmental policies.

0101	Sebastian Galiani MW 11:00am - 12:15pm	Seats (Total: 38) TYD 1114
0201	Jessica Goldberg TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 1101
0301	Jessica Goldberg TuTh 2:00pm - 3:15pm	Seats (Total: 38) TYD 1118

ECON418M Economic Development of Selected Areas; Middle East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Description: Restricted to ECON majors only. Prerequisites: One course with a minimum grade of C- from (ECON321 or STAT400); and one course with a minimum grade of C- from ECON325 or ECON326.

0201	Hossein Abbasi Alikamar TuTh 9:30am - 10:45am	Seats (Total: 38) TYD 2111
0301	Hossein Abbasi Alikamar TuTh 11:00am - 12:15pm	Seats (Total: 38) TYD 2111

ECON422 Econometrics I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (STAT400, ECON321). Restriction: Must be in Economics Bachelor of Science program. Credit only granted for: ECON422, ECON424, AREC422, or AREC489F.

Emphasizes the interaction between economic problems and the assumption employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.

0101	Youngjin Yun	Seats (Total: 38)
	TuTh 9:30am - 10:45am	TYD 2108
0201	Sergio Urzua	Seats (Total: 38)
	MW 11:00am - 12:15pm	TYD 1101
0301	Hossein Abbasi Alikamar	Seats (Total: 38)
	MW 2:00pm - 3:15pm	TYD 2110
0401	Xing Hong	Seats (Total: 38)
	TuTh 11:00am - 12:15pm	SQH 1105

ECON423

Econometrics II

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in Economics Bachelor of Science program.

Interaction between economic problems and specification and estimation of econometric models. Topics include issues of autocorrelation, heteroscedasticity, functional form, simultaneous equation models, qualitative choice models, and other computational methods.

0101	Maureen Cropper	Seats (Total: 38)
	TuTh 2:00pm - 3:15pm	TYD 1102

ECON424

Computer Methods in Economics

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON422 or ECON424.

Provide the knowledge and skills necessary to accomplish and utilize basic applied econometric analysis utilized by many business service providers, government agencies, and nonprofits engaged in policy analysis. Topics include simple and multiple regressions using cross section, time series, and panel data, issues of heteroskedasticity, serial correlation, and multicollinearity, models with binary dependent variable, and program evaluation. Course emphasizes application of knowledge using software packages but still covers essential theoretical background.

Meets in computer labs 3 and 4 in LeFrak (0229 and 0231).

0101	Yi Zhao	Seats (Total: 38)
	TuTh 3:30pm - 4:45pm	LEF 0229
0201	Stephanie Rennane	Seats (Total: 38)
	MW 3:30pm - 4:45pm	LEF 0231
0301	Kevin Dayaratna	Seats (Total: 38)
	TuTh 6:30pm - 7:45pm	LEF 0229

ECON427

Experimental Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department. Credit only granted for: ECON398X or ECON427. Formerly: ECON398X.

An introduction to the methodology of experimental economics and its application to issues such as decision-making under uncertainty, auctions, and public goods. Also an introduction to behavioral economics as a relatively new area of economic research.

0101	Emel Filiz Ozbay	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 0102

ECON435

Financial Markets and the Macroeconomy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed BMGT343. Credit only granted for: BMGT343 or ECON435. Additional information: Finance majors will not receive credit for ECON435.

The different types of financial assets that exist, the markets that they trade in, and the determination of their prices and rates of return are examined. Specific topics that will be covered include the Markowitz portfolio selection model, the capital asset pricing model, the arbitrage pricing theory, the efficient markets hypothesis, the term structure of interest rates, and options. There will be almost no emphasis on issues in corporate finance.

0101	Hsuan Yu	Seats (Total: 38)
	TuTh 9:30am - 10:45am	TYD 2110

ECON441 Theory of International Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325. Restriction: Must be in a major within the BSOS-Economics department; and must not have completed ECON340, ECON442, or ECON443. Credit only granted for: ECON340, ECON441, ECON442, or ECON443.

Theoretical treatment of international trade and international finance. Includes Ricardian and Heckscher-Ohlin theories of comparative advantage, analysis of tariffs and other trade barriers, international factor mobility, balance of payments adjustments, exchange rate determination, and fiscal and monetary policy in an open economy.

Contact department for information to register for this course.

ECON442 Globalization and Capital Markets

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326 and ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON442.

Uses models of open-economy macroeconomics to explain the causes and consequences of international capital flows. Analysis is made of private consumption, investment, the government sector, current accounts, the labor market, and the money and foreign exchange markets in small open economies. This framework is then used to study examples of how speculative attacks on currencies, sudden reversals of capital inflows, and the effects of the lack of credibility of economic policy affect economic development.

0101	An Wang	Seats (Total: 38)
	MW 5:00pm - 6:15pm	TYD 0101
BL01	Sebnem Kalemli-Ozcan	Seats (Total: 20)
	Tu 11:00am - 12:15pm	TYD 1118
	Class time/details on ELMs	ONLINE

ECON443**International Trade and Trade Policy in the New Global Economy**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program; and must not have completed ECON441. Credit only granted for: ECON441 or ECON443.

Examines the economics of international economic integration, including the theory of customs unions and free trade areas, the role of GATT and the WTO, changes in individual countries' foreign trade policies during the new era of globalization, the special role of multinational firms in world trade, and recent controversies about the benefits and costs of globalized trade.

0101	Stefania Scandizzo	Seats (Total: 38)
	MWF 1:00pm - 1:50pm	TYD 0101
0201	Yang Xu	Seats (Total: 38)
	TuTh 9:30am - 10:45am	TYD 1108

ECON451**Public Choice**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Analysis of collective decision making, economic models of government, program budgeting, and policy implementation; emphasis on models of public choice and institutions which affect decision making.

0101	Peter Coughlin	Seats (Total: 38)
	TuTh 11:00am - 12:15pm	TYD 1108

ECON454**Public Finance and Public Policy**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON422, ECON424). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science).

The role of the the public sector in a market economy constitutes the over-arching topic of this course. Emphasis lies on analyzing government expenditure programs and the microeconomics of tax policy.

0101	Kenneth Coriale	Seats (Total: 38)
	TuTh 12:30pm - 1:45pm	TYD 0102
0201	Lesley Turner	Seats (Total: 38)
	TuTh 9:30am - 10:45am	TYD 2102

ECON458Q Special Topics in Study Abroad IV; State and Economy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ECON460 Industrial Organization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in Economics Bachelor of Science program.

Examines different theoretical models of firm behavior in markets with varying amounts of market power. Relates theory to specific industries and examines how market structure evolves over time.

Contact department for information to register for this course.

ECON461 Economics of Regulation and Anti-trust

Credits: 3 Grading Method: Regular

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Considers government intervention in economic activity of three types: antitrust policy, regulation of natural monopolies, and health safety regulation. Covers theoretical models, real-world policy applications, and empirical studies relevant to the impact of regulation.

0101	Cindy Clement	Seats (Total: 35)
	MWF 9:00am - 9:50am	TYD 1132
0201	Cindy Clement	Seats (Total: 35)
	MWF 10:00am - 10:50am	TYD 1132

ECON470**Labor Economics:Theory and Evidence**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT400). Restriction: Must be in a major within the BSOS-Economics department.

An analytical treatment of theories of labor markets, and an examination of empirical findings, evidence and conclusions. Topics covered will include some or all of the following: labor demand; labor supply and labor market participation; theory of human capital; earnings differentials; and if time allows, market structure and the efficiency of labor markets; and unemployment.

Contact department for information to register for this course.

ECON488K**Applied Market Research Practicum; Kaulkin Ginsberg Research Fellow**

(Perm req)

Credits: 2

Grading Method: Sat-Fail

Students gain experience applying economic knowledge and producing market research valued by businesses, non-profits, and/or government agencies. Students engage in activities similar to what an intern or entry-level employee would perform. Students work in small groups to find different kinds of data and facts, analyze and interpret this information, and use research findings to develop and present recommendations for simulated clients.

0101	Cindy Clement	Seats (Total: 20)
	Meets January 25, 2016 - April 4, 2016	
	M 5:30pm - 7:45pm	TYD 1108

ECON602**Macroeconomic Analysis II**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ECON601; or permission of BSOS-Economics department.

Further issues regarding macroeconomic topics. First half emphasis will be placed on dynamic macroeconomic theory as pertaining to monetary issues, policy ineffectiveness and effectiveness. The second half of the course will focus on theories of investment and growth.

0101	Sadik Aruoba, John Haltiwanger	Seats (Total: 48)
	MW 9:30am - 10:45am	TYD 1114
	M 5:00pm - 6:45pm	TYD 2108
		Discussion

ECON604**Microeconomic Analysis II**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON603. Restriction: Permission of BSOS-Economics department.

Analysis of markets and market equilibria; the Arrow-Debreu model of general equilibrium, the two-sector model, welfare theorems, externalities, public goods, markets with incomplete and asymmetric information.

0101	Daniel Vincent, Erkut Ozbay	Seats (Total: 45)	
	TuTh 2:00pm - 3:15pm	TYD 0101	
	F 2:00pm - 3:15pm	TYD 2108	Discussion

ECON613 Origins and Development of Capitalism

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of BSOS-Economics department; and must not be an advanced special student.

Institutions and technology shaping pre-capitalist economies: Archaic, Greek and Roman, Feudal, and Mercantile. Rise of the market system, national economies, and capitalism. The nature of industrial society. Imperialism.

0101	John Wallis	Seats (Total: 22)	
	TuTh 2:00pm - 3:15pm	LEF 1221	

ECON615 Development Economics I

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON603; or permission of BSOS-Economics department.

Explore both the causes and consequences in development economics from a historical and scientific approach. Presents theoretical models and applied work that test alternative hypotheses. Explore models of economic growth and institutions, with emphasis on property rights and political regimes as causal factors affecting development. Discuss empirical methods widely used in the field and important related topics including poverty, inequality, education and health.

0101	Sebastian Galiani	Seats (Total: 15)	
	MW 2:00pm - 3:15pm	TYD 0101	

ECON624 Econometrics II

Fundamental aspects of data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn probability theory, confidence intervals, hypothesis testing and regression analysis using the EXCEL spreadsheet program and STATA statistical software.

PR01	Ephraim Leibtag	Seats (Total: 27)
Meets February 29, 2016 - May 20, 2016		
M 6:45pm - 9:30pm		Location: TBA
Class time/details on ELMs		ONLINE Discussion
<i>Restricted to students in the Department of Economics' Professional Program. This course meets at 1400 16th Street NW, Washington D.C., Suite 140.</i>		

ECON645 Empirical Analysis III: Econometric Modeling and Forecasting

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON644. Credit only granted for: ECON645 or ECON523. Formerly: ECON523.

Study of empirical techniques that are particularly relevant to the analysis of microeconomic models. Emphasis is on advanced panel data methods, time series regressions, instrumental variables, limited dependent variables, and sample selection corrections.

Restricted to students in the Department of Economics' Professional Program. This course meets at 1400 16th Street NW, Washington D.C., Suite 140.

PR01	Cristina Tello-Trillo	Seats (Total: 27)
Meets February 29, 2016 - May 20, 2016		
M 6:45pm - 9:30pm		Location: TBA
Class time/details on ELMs		ONLINE Discussion
<i>Restricted to students in the Department of Economics' Professional Program. This course meets at 1400 16th Street NW, Washington DC.</i>		

ECON673 Information, Game Theory and Market Design

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644.

A study of the strategic decision-making and the theory and practice of market design. Focus is on the design of organized market and incentives created by market rules. Topics include online auction markets, government auctions procurement auctions and matching markets. The analysis includes documenting the rules of real-world markets, game theoretic analysis, empirical analysis, and experimental work.

Restricted to students in Master of Professional Studies in Applied Economics program.

PR01	Andrew Stocking, Nathaniel Higgins	Seats (Total: 23)
	Meets February 29, 2016 - May 20, 2016	
	Tu 6:45pm - 9:30pm	Location: TBA
	Class time/details on ELMs	ONLINE

ECON676 Economic Development

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ECON641; and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Analysis of economic development. The course will focus on the consequences of poverty and poor institutions for the behavior and welfare of individuals, households, firms and the aggregate economy in developing countries. Theoretical models and empirical evidence will be used to understand the intended and unintended consequences of policies designed to enhance economic development.

Restricted to students in Master of Professional Studies in Applied Economics program.

PR01	Jacob Goldston	Seats (Total: 27)
	Meets February 29, 2016 - May 20, 2016	
	W 6:45pm - 9:30pm	Location: TBA
	Class time/details on ELMs	ONLINE

ECON683 International Macroeconomics and Finance

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ECON641 and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.

Economic analysis of international macroeconomic issues and policy. Topics can include the study of exchange rates, balance of payments, international financial markets, international business cycles, contagion, and the roles played by international economic institutions.

Restricted to students in Master of Professional Studies in Applied Economics program.

PR01	Brendan Epstein	Seats (Total: 23)
	Meets February 29, 2016 - May 20, 2016	
	Th 6:45pm - 9:30pm	Location: TBA
	Class time/details on ELMs	ONLINE

ECON698 Selected Topics in Economics

(Perm req)

Credits: 3

Grading Method: Regular,
Audit**Contact department for information to register for this course.**

ECON698A Selected Topics in Economics; Behavioral Economics

Credits: 3

Grading Method: Regular,
Audit

0101	Emel Filiz Ozbay	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SQH 1117

ECON702 Advanced Macroeconomics II

(Perm req)

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ECON602 and ECON601.*

Selected issues in monetary economics with an equal emphasis of learning the models and understanding important issues: a survey of models (cash-in-advance, money-in-the-utility-function, transaction cost, search-based models), empirical issues in monetary economics, business cycles and money, monetary policy, welfare cost of inflation, alternative media of exchange.

0101	John Haltiwanger	Seats (Total: 20)
	MW 2:00pm - 3:15pm	TYD 1132

ECON704 Advanced Microeconomics II

(Perm req)

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ECON604 and ECON603.*

This is the second half of a two-semester sequence in Advanced Microeconomics, intended for second-year Ph.D. students. The course material varies from year-to-year, but currently it focuses on auction theory, matching theory, and the relationship between matching and auction theory. Other topics that are treated in some years include: sequential bargaining under incomplete information; and equilibrium refinements.

0101	Lawrence Ausubel	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TYD 2102

ECON708

(Perm req)

Advanced Topics in Applied and Theoretical Microeconomics

Credits: 2 Grading Method: Regular,
Audit

Read, discuss, and analyze current topics in microeconomics, including public economics, environmental economics, labor economics, industrial economics, microeconomic theory, public choice and international trade. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	Sergio Urzua MW 12:30pm - 1:45pm	Seats (Total: 15) TYD 0111
0301	Jessica Goldberg MW 12:30pm - 1:45pm	Seats (Total: 15) Location: TBA
0401	Daniel Vincent MW 12:30pm - 1:45pm	Seats (Total: 15) Location: TBA
0501	Lesley Turner MW 12:30pm - 1:45pm	Seats (Total: 15) Location: TBA

ECON709

(Perm req)

Advanced Topics in Applied and Theoretical Macroeconomics

Credits: 2 Grading Method: Regular,
Audit

Read, discuss, and analyze current topics in macroeconomics, including asset pricing models, models of economic growth, investment, and the labor market. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.

0101	John Chao TuTh 12:30pm - 1:45pm	Seats (Total: 10) TYD 1108
0201	Peter Coughlin TuTh 12:30pm - 1:45pm	Seats (Total: 15) Location: TBA
0301	Felipe Saffie TuTh 12:30pm - 1:45pm	Seats (Total: 15) Location: TBA
0401	Ingmar Prucha TuTh 12:30pm - 1:45pm	Seats (Total: 10) Location: TBA

ECON722**Econometrics IV**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ECON624; or permission of BSOS-Economics department.*

Oriented towards micro-econometric methods. Topics covered will be selected from the following: Further discussion of topics covered in ECON624, binary and multinomial response models, censored and truncated regression models, sample selection models, count data models, duration models, program evaluation and treatment effects methods, structural econometrics, the identification problem, stratified and clustered samples, spatial/cross sectional dependence models, dynamic panel data models, weak instruments, non-parametric estimation, boot strap and Jack Knife methods, pre-test estimators.

0101	Ingmar Prucha, Guido Kuersteiner	Seats (Total: 11)
	TuTh 5:00pm - 7:30pm	TYD 0102

ECON743**Topics in International Finance**

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ECON602; or permission of BSOS-Economics department. Recommended: ECON741.*

Puzzles in international finance; portfolio balance, current account dynamics, exchange rate behavior; capital market imperfections; balance of payments crises.

0101	Sebnem Kalemli-Ozcan	Seats (Total: 20)
	Tu 8:00am - 10:50am	TYD 0111

ECON745**Advanced Topics in International Trade**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ECON604 and ECON624. Credit only granted for: ECON698L or ECON745. Formerly: ECON698L.

Designed primarily for students planning to write dissertations on a topic related to international trade. Its focus is on recent research in this field including tests of trade theories; the effects of trade on growth and knowledge diffusion; the political economy of trade policy and the theory and practice of trade agreements.

0101	Luca David Oromolla	Seats (Total: 10)
	W 5:15pm - 8:00pm	TYD 4103

ECON752 Public Economics II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: ECON751.

Theoretical and empirical issues in taxation, with particular emphasis on income taxation.

0101	Melissa Kearney	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	TYD 0111

ECON756 Empirical Political Economics

(Perm req) Grading Method: Regular,
Credits: 3 Audit

Prerequisite: ECON623, ECON624, and ECON754; or students who have taken courses with comparable content may contact the department. Restriction: Permission of BSOS-Economics department.

An introduction to empirical political economy. Determinants of individual political behavior and the impact of political rules on economic outcomes will both be analyzed. Modern applied econometric techniques will also be covered.

0101	Ethan Kaplan	Seats (Total: 20)
	MW 11:00am - 12:15pm	TYD 2110

ECON772 Population Economics

(Perm req) Grading Method: Regular,
Credits: 3 Audit

Prerequisite: ECON771; or permission of BSOS-Economics department.

Covers the central ideas in population economics. These include theory and test of theories of mortality, fertility and immigration.

0101	Judith Hellerstein	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 1103

ECON799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ECON808**Workshop on Macroeconomics and Growth**

(Perm req)

Credits: 2

Grading Method: Sat-Fail,
Audit

ECON graduate students only.

0101	Peter Coughlin W 3:30pm - 6:00pm	Seats (Total: 15) TYD 2111
0201	John Chao W 3:30pm - 6:00pm	Seats (Total: 15) Location: TBA
0301	Charles Hulten W 3:30pm - 6:00pm	Seats (Total: 15) Location: TBA
0401	Guido Kuersteiner W 3:30pm - 6:00pm	Seats (Total: 15) Location: TBA

ECON828**Workshop in Econometrics**

Credits: 2

Grading Method: Sat-Fail,
Audit

Current research in econometrics. Topics drawn from theoretical and applied econometrics. Special topics include: maximum likelihood and generalized method of moments estimation of linear and non-linear models, analysis of stationary and non-stationary time series, cross section time series estimation, spatial estimation methods, Bayesian methods, semi-and non-parametric methods, rational expectations models, numerical methods, and various applications.

0101	Ingmar Prucha M 3:30pm - 6:00pm	Seats (Total: 20) TYD 2110
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ECON848**Workshop in International Development, and Comparative Economics**

(Perm req)

Credits: 2

Grading Method: Sat-Fail,
Audit

ECON graduate students only.

0101	Allan Drazen M 3:30pm - 6:00pm	Seats (Total: 30) TYD 2102
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ECON868**Workshop in Industrial Organization**

(Perm req)

Credits: 2

Grading Method: Sat-Fail,
Audit

ECON graduate students only.

0101	Erkut Ozbay Tu 3:30pm - 6:00pm	Seats (Total: 20) TYD 2108
0201	Daniel Vincent Tu 3:30pm - 6:00pm	Seats (Total: 20) Location: TBA

ECON878

Workshop in Labor Economics

(Perm req)

Credits: 2

Grading Method: Sat-Fail,
Audit

ECON graduate students only.

0101	Soohyung Lee Th 3:30pm - 6:00pm	Seats (Total: 15) TYD 0101
0201	Jessica Goldberg Th 3:30pm - 6:00pm	Seats (Total: 15) Location: TBA

ECON898

Pre-Candidacy Research

(Perm req)

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

ECON899

Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

EDCI

Curriculum and Instruction

Spring 2016

EDCI210

Exploring Teaching as a Career

Credits: 3

Grading Method: Regular

General Education: DSSP

Weekly participation as a volunteer tutor in a local school or community program with children or adolescents. Regular campus meetings assist with developing teaching skills and insight.

0101	Loretta Holmberg-Masden	Seats (Total: 15)
	Tu 2:00pm - 4:00pm	JMZ 3118
	Contact instructor or department for details.	
	<i>Students should reserve two late afternoons per week for tutoring or after-school learning opportunities.</i>	

EDCI243 Attitudes and Beliefs about the "Other" in Literature, Film and the Media

Credits: 3 Grading Method: Regular CORE: HL, D General Education: DSHU, DVCC

An examination of the ways various media represent dominant and non-dominant identities and the parameters for acceptable social behavior, and how these sociocultural forces shape personal identities, cultural competence and interpersonal power dynamics.

0101	Melissa Landa	Seats (Total: 30)
	W 1:00pm - 3:30pm	TYD 1108

EDCI246 Good Stories: Teaching Narratives for Peace and Justice

Credits: 3 Grading Method: Regular CORE: HL General Education: DSHU, SCIS

Through the study and use of oral storytelling and digital technologies explore qualities and characteristics of what makes a good story and how stories can be used to advance peace and justice on both individual and social levels.

0101	Joseph McCaleb	Seats (Total: 30)
	Tu 11:00am - 12:15pm	PHY 1201
	Th 11:00am - 12:15pm	PHY 1201 Lab
0102	Joseph McCaleb	Seats (Total: 30)
	Tu 11:00am - 12:15pm	PHY 1201
	Th 11:00am - 12:15pm	PHY 1201 Lab

EDCI280 Looking Inside Schools and Classrooms

Credits: 3 Grading Method: Regular

An exploration of teaching in public schools, grades 1-12: student diversity, societal changes, and the expectations of teachers and public schools. Three hour per week field component.

Students will be given their lab assignments in class.

0101	Tracy Dunheimer	Seats (Total: 24)
	Th 2:00pm - 3:50pm	EDU 2121
	Th 8:30am - 11:30am	Location: TBA Lab
<i>Orientation will be held during the first class/seminar meeting.</i>		
0102	Tracy Dunheimer	Seats (Total: 6)
	Th 2:00pm - 3:50pm	EDU 2121
	W 12:30pm - 3:30pm	Location: TBA Lab
<i>Orientation will be held during the first class/seminar meeting.</i>		
0201	Lisa Bote	Seats (Total: 24)
	Tu 12:30pm - 2:20pm	EDU 2121
	Tu 8:30am - 11:30am	Location: TBA Lab
<i>Orientation will be held during the first class/seminar meeting.</i>		
0202	Lisa Bote	Seats (Total: 6)
	Tu 12:30pm - 2:20pm	EDU 2121
	W 12:30pm - 3:30pm	Location: TBA Lab
<i>Orientation will be held during the first class/seminar meeting.</i>		

EDCI288B Networked Intelligence: Learning, Living, and Connecting Smarter in the Digital Age

Credits: 3 Grading Method: Regular CORE: SB General Education: DSHS, SCIS

0101	June Ahn	Seats (Total: 60)
	MW 10:00am - 11:15am	SQH 1119

EDCI288E Special Topics in Teacher Education; Developmental Heuristics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Tilahun Beyene	Seats (Total: 150)
Contact instructor or department for details.		

EDCI288M Special Topics in Teacher Education; You Say You Want a Revolution: Music as Protest and Social Action

Credits: 3 Grading Method: Regular,
Pass-Fail General Education: DSHU, SCIS

0101	Melissa Landa	Seats (Total: 60)
	W 9:00am - 11:45am	TYD 0102

EDCI2880 Special Topics in Teacher Education; Exploring Teaching in America Counts/Reads

(Perm req)

Credits: 1-2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Application and brief interview. Apply at: www.arac.umd.edu. Four to six hours each week in local elementary school working with children in reading or math through the America Reads*America Counts program. Transportation provided. Class will meet every week.

0101	Alison Barlow	Seats (Total: 20)
	Contact instructor or department for details. ONLINE	Discussion
	Class time/details on ELMs	
	<i>Course will be held online with three in-person evening meetings. Meeting dates TBD.</i>	

EDCI297 Students, Schooling, and Communities

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Corequisite: EDCI280.

Facilitates pre-service teachers' initial look at their personal backgrounds and the ways in which they view the world. Exploration of schools, students and their connections to communities. Draws on preservice teachers' concurrent field experiences.

0101	Nana Brantuo	Seats (Total: 25)
	MW 9:30am - 10:45am	EDU 2102

EDCI298 Special Problems in Teacher Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

EDCI305E Curriculum and Instruction Cluster

Credits: 0 Grading Method:

0101	Instructor: TBA	Seats (Total: 30)
	Contact instructor or department for details.	

0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 30)

EDCI322

Curriculum and Instruction in Elementary Education: Social Studies

Credits: 3 Grading Method: Regular,
Pass-Fail

Corequisite: EDCI362, EDCI397, EDCI489, and TLPL306. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.

Curriculum, organization and methods of teaching, evaluation of materials, and utilization of environmental resources. Emphasis on multicultural education. Includes laboratory/field experiences.

0101	Marcie Taylor-Thoma W 12:30pm - 3:15pm	Seats (Total: 0) TYD 1114
0201	Donna Phillips M 8:00am - 10:45am	Seats (Total: 0) EDU 2212
0301	Marcie Taylor-Thoma M 12:30pm - 3:15pm	Seats (Total: 0) EDU 1121

EDCI362

Materials and Instruction for Creating Skilled and Motivated Readers, Part 2

Credits: 3 Grading Method: Regular,
Pass-Fail

Corequisite: EDCI322, EDCI397, TLPL306, and EDCI489. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Selecting, evaluating, and using a variety of materials and instructional techniques to create skilled and motivated readers in the elementary grades, particularly in diverse classroom settings; Topics include word analysis, spelling, writing, reading comprehension strategies, directed reading lessons and explicit instruction.

0101	Jennifer Albro Th 9:00am - 11:45am	Seats (Total: 0) EDU 1107
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0201	Erin Hogan	Seats (Total: 0)
	Th 12:30pm - 3:15pm	TYD 0111
0301	Jennifer Himmel	Seats (Total: 0)
	M 9:00am - 11:45am	TWS 1106

EDCI397 Principles and Methods of Teaching in Elementary Schools

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: EDCI322, EDCI362, TLPL306, and EDCI489. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Teaching strategies, classroom interactive techniques, and procedures for planning and evaluating instruction in elementary schools. Emphasis on principles of effective instruction, classroom management, and adaptation of instruction for various student populations.

0101	Lisa Bote	Seats (Total: 0)
	W 9:00am - 11:45am	EDU 2212
0201	Deborah Lewin	Seats (Total: 0)
	Th 9:00am - 11:45am	EDU 2121
0301	Lisa Bote	Seats (Total: 0)
	Tu 9:00am - 11:45am	EDU 2121

EDCI401 Student Teaching in Elementary School: Art

Credits: 4-8 Grading Method: Sat-Fail

Prerequisite: EDCI405. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Secondary Educ: Art program.

0101	Susan Hendricks	Seats (Total: 18)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

EDCI402 Student Teaching in Secondary Schools: Art

Credits: 2-8 Grading Method: Sat-Fail

Prerequisite: EDCI405. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program; and permission of Teaching and Learning, Policy and Leadership Department.

Students must pay a \$750.00 lab fee.

0101	Susan Hendricks	Seats (Total: 18)
	Contact instructor or department for details.	

EDCI404 Student Teaching Seminar: Art Education

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDCI405 and EDCI400. Corequisite: EDCI402 and EDCI401. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program.

An analysis of teaching theories, strategies, and techniques in the student teaching experience.

0101	Margaret Walker	Seats (Total: 8)
	Tu 4:30pm - 7:15pm	EDU 1315

EDCI405 Art Education Methods I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Restriction: Must be in Secondary Educ: Art program; or must be in Secondary Educ: Art pre-major program. And minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI300 or EDCI405. Formerly: EDCI300.

Methods I provides future art teachers with a knowledge base of the theories and best practices of effective pedagogy for: teaching methods and strategies, diversity, motivational techniques, classroom management, assessment and evaluation methods, and accommodating all students including those with special needs.

0101	Susan Hendricks	Seats (Total: 25)
	Tu 9:00am - 12:00pm	EDU 1315

EDCI407 Practicum in Art Education: Three-Dimensional

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Secondary Educ: Art program; or must be a Pre-Art Education Major.

A lecture-studio course to develop skills, material resources, and educational strategies for three-dimensional projects in school settings.

0101	Margaret Walker	Seats (Total: 25)
	M 9:00am - 12:00pm	EDU 1315
	W 9:00am - 12:00pm	EDU 1315

EDCI411 Knowledge, Reasoning, and Learning in Science

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI370 or EDCI411. Formerly: EDCI370.

For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.

SG91	Daniel Levin	Seats (Total: 24)
	TuTh 9:30am - 10:45am	BLD3 2133
<i>Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other student to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		

EDCI414 Interdisciplinary Teaching in the Middle Grades II

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: EDCI360 and EDCI413. Corequisite: EDCI425 and EDCI460. Restriction: Minimum cumulative GPA of 2.5; and must be in the Middle School Teacher Education Program.

For prospective middle school teachers. Planning and implementing interdisciplinary instructional practices in middle school. Draws on the context of and experiences in the student teaching placement. Use of technology and incorporation of technology into instruction.

0101	Janet Walkoe	Seats (Total: 20)
	W 5:00pm - 7:00pm	EDU 2121
IH60	Daniel Levin	Seats (Total: 25)
	M 5:00pm - 8:00pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to program participants.</i>		

EDCI417 Bases for English Language Instruction

(Perm req)

Credits: 3

Grading Method: Regular

Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department.

Examines current theory, research, best practice, curricula and materials focused on the teaching of English language to native and non-native English learners. Topics include morphology, syntax, semantics, vocabulary, pragmatics, argument, discourse structure, dialects, edited academic English, English language proficiency (listening, speaking, reading, writing) assessment, and instructional planning. English Language Learner (TESOL and SIOP) and special needs (inclusion) pupil issues considered.

0101	James Groff	Seats (Total: 30)
	W 5:00pm - 7:45pm	ASY 3207

EDCI420

Student Teaching Seminar in Secondary Education: Social Studies

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDCI426 and EDCI427. Corequisite: EDCI421 and EDCI422. Restriction: Minimum cumulative GPA of 2.75.

An analysis of teaching theories, strategies, and techniques in the student teaching experience.

0101	Alison Jovanovic	Seats (Total: 30)
	M 5:30pm - 8:30pm	ASY 3203

EDCI421

Student Teaching in Secondary Schools: Social Studies/History

Credits: 12

Grading Method: Sat-Fail

Prerequisite: Admission to teacher education program. Corequisite: EDCI420. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Secondary Educ: Social Studies program.

Students must pay a \$750.00 lab fee.

0101	Alison Jovanovic	Seats (Total: 30)
	Contact instructor or department for details.	

EDCI425

Equity and Pedagogy

Credits: 2

Grading Method: Regular,
Audit

Prerequisite: EDCI424. Corequisite: EDCI414 and EDCI460. Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Early Childhood Education; Elementary Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Physical Education; Music Education; Secondary Educ: Art; Special Education).

An exploration and application of major theoretical frameworks surrounding equity and critical pedagogy. Pedagogical decision making that leads to greater equity and improved student learning for all students. Draws on the concurrent student teaching experience.

0101	Kristin Sinclair	Seats (Total: 20)
	Tu 5:00pm - 7:00pm	EDU 1121

EDCI430 Student Teaching Seminar in Secondary Education: World Language

Credits: 1 Grading Method: Regular

Prerequisite: EDCI410 and EDCI433. Corequisite: EDCI431 and EDCI474. Restriction: Must be in Secondary Educ: Foreign Languages program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

An analysis of teaching theory, strategies and techniques in the internship experience.

0101	Perla Blejer	Seats (Total: 12)
	W 4:30pm - 6:30pm	ASY 3217

EDCI431 Teaching Internship in Secondary Schools: World Language

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI410 and EDCI433. Corequisite: EDCI430 and EDCI474. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Foreign Languages program. Or permission of EDUC-Teaching, Learning, Policy and Leadership department. Additional information: Internship lab fee applies. See current program description for details.

Practical experience as a full-time intern with a fully licensed World Language teacher in a diverse school setting; assigned professional responsibilities and participates in teaching/learning experiences.

Students must pay a \$750.00 lab fee.

0101	Perla Blejer	Seats (Total: 12)
	Contact instructor or department for details.	

EDCI434 Pedagogy of Teaching English Language Learners

Credits: 3 Grading Method: Regular

A survey of the historical and current approaches, methods, and techniques of teaching English to speakers of other languages, from grammar translation and audiolingual to communicative and task-based approaches will be presented. Additionally, successful classroom practices that address the needs of culturally diverse and language minority students will be analyzed. Students will have the opportunity to discuss, probe and apply theories and principles to hands-on teaching practices in real-life settings. Digital technologies that assist teaching English language learners (ELLs) will be emphasized as well.

0101	Johanna Tigert	Seats (Total: 24)
	MW 2:00pm - 3:15pm	EDU 2212

EDCI436 Understanding Cross-Cultural Communication for Teaching English Language Learners

Credits: 3 Grading Method: Regular, General Education: DVCC
 Audit

Credit only granted for: EDCI436 or EDCI488T. Formerly: EDCI488T.

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

0101	Kellie Rolstad	Seats (Total: 20)
	Th 2:00pm - 4:45pm	SQH 1101

EDCI437 English Grammar Pedagogy for Teachers of English Language Learners

Credits: 3 Grading Method: Regular

Credit only granted for: EDCI437 or EDCI488P. Formerly: EDCI488P.

Methods of teaching English grammar to English language learners. The role of teaching grammar. Effective methods and techniques for incorporating grammar in other communication activities.

0101	Denis Sullivan	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	EDU 2119

EDCI440 Internship Seminar in Secondary Education: English

Credits: 1 Grading Method: Sat-Fail

Prerequisite: EDCI447 and EDCI467. Corequisite: EDCI441 and EDCI474. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

A review and analysis of current instructional theories, strategies and best practice in relation to the teaching internship. Meets at area high school; location provided before first meeting.

Meets at Eleanor Roosevelt High School. Contact the EDCI department for more information.

0101	Peggy Wilson	Seats (Total: 35)
	M 6:15pm - 7:15pm	Location: TBA

EDCI441 Internship in Secondary Schools: English

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI447 and EDCI467. Corequisite: EDCI440 and EDCI474. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as a full-time intern with a fully licensed English teacher in a diverse school setting; assigned professional responsibilities and participates in teaching/learning experiences. Internship lab fee applies. See current program description for details.

Students must pay a \$750.00 lab fee.

0101	Peggy Wilson	Seats (Total: 25)
	Contact instructor or department for details.	

EDCI443 Literature for Children and Youth

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Elementary Education program; or must be a Pre-Education Major.

Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.

0101	Melissa Landa	Seats (Total: 30)
	Th 1:00pm - 3:45pm	EDU 3233
0201	Margaret Peterson	Seats (Total: 30)
	Tu 1:00pm - 3:45pm	EDU 3233

EDCI450 Internship Seminar in Secondary Education: Mathematics

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDCI457 and EDCI455. Corequisite: EDCI451 and EDCI474. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Strategies and techniques in the internship experience. Structured work on teaching portfolio (requirement for graduation and certification). Place, day, and time to be arranged.

Meets at Roosevelt High School. Day and time to be arranged.

0101	John Seelke	Seats (Total: 10)
	Tu 7:00pm - 9:00pm	EDU 2101

EDCI451 Student Teaching in Secondary Schools: Mathematics

Credits: 12 Grading Method: Sat-Fail

Corequisite: EDCI450. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Secondary Educ: Mathematics program.

Students must pay a \$750.00 lab fee.

0201	John Seelke	Seats (Total: 15)
	Contact instructor or department for details.	

EDCI460 Student Teaching: Middle School

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI413. Corequisite: EDCI414 and EDCI425. Restriction: Minimum cumulative GPA of 2.5; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and for Middle School Education majors only.

A Middle-school student teaching experience in two content areas.

Students must pay a \$750.00 lab fee.

0101	Stacy Pritchett	Seats (Total: 20)
	Contact instructor or department for details.	

EDCI462 Materials and Instruction for Creating Skilled and Motivated Readers, Part II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDCI397 and EDCI461. Corequisite: EDCI352, EDCI342, EDCI372, and EDCI322.
Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Elementary Education program.

Selecting, evaluating, and using a variety of materials to create skilled and motivated readers in the elementary grades, particularly in diverse classroom settings; Topics include word analysis, spelling, writing, reading comprehension strategies, directed reading lessons, and explicit instruction.

Contact department for information to register for this course.

EDCI463**Reading in the Secondary School**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and permission of department required for post-baccalaureate students.

Provides secondary school teachers with understanding the need for and approaches to teaching students to read and learn from content area texts.

0101	Jocelyn Holm Tu 2:00pm - 4:30pm	Seats (Total: 30) EDU 2212
0201	Olivia Saracho W 2:00pm - 4:30pm	Seats (Total: 30) JMZ 0122

EDCI464**Assessment for Reading**

Credits: 3 Grading Method: Regular

Prerequisite: EDCI362. Restriction: Senior standing. And must be in Elementary Education program; or must be in Early Childhood Education program.

Examination of reading assessment theory, materials and procedures; Topics include validity and reliability in reading assessment, formal and informal assessment, reading instruction that is informed by ongoing assessment, and the effects of assessment on students and schooling in a diverse society.

0101	Peter Afflerbach Tu 4:15pm - 7:00pm <i>For Team 1 Interns.</i>	Seats (Total: 32) JMZ 0125
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0201	Ayanna Baccus M 4:15pm - 7:00pm <i>For Team 2 Interns.</i>	Seats (Total: 32) EDU 3315
0301	Nesrin Ozturk Th 4:15pm - 7:00pm <i>For Team 3 Interns.</i>	Seats (Total: 32) EDU 2119
0401	Olivia Saracho Th 4:15pm - 7:00pm <i>Restricted to Early Childhood interns.</i>	Seats (Total: 32) EDU 2212

EDCI466

Literature for Adolescents

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU
Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching, Learning, Policy and Leadership department.

Reading and analysis of fiction and nonfiction; methods for critically assessing quality and appeal; current theory and methods of instruction; research on response to literature; curriculum design and selection of books.

0101	Rebecca Hessong Grove MW 11:00am - 12:15pm	Seats (Total: 30) EDU 2121
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EDCI471

Internship in Secondary Schools: Science

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI470. Corequisite: EDCI480 and EDCI474. Restriction: Must be in Secondary Educ: Science program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Practical experience as a full-time intern with a fully licensed science teacher in a diverse school setting; assigned professional responsibilities and participates in teaching/learning experiences. Internship lab fee applies. See current program description for details.

Students must pay a \$750.00 lab fee.

0101	Tranae Johnson Contact instructor or department for details.	Seats (Total: 20)
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EDCI474 Teaching Academically, Culturally, and Linguistically Diverse Students in Secondary Education

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: Enrolled in internship/certification area. Restriction: Must be in one of the following programs (Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Multi-disciplinary capstone course for Secondary Education majors. Discussion of pedagogical and content issues relevant for teaching academically, culturally, and linguistically diverse students with particular emphasis on students with special educational needs and English language learners. Students develop and use curriculum-based assessments and/or lessons with these groups of students.

0101	Suh Hwang	Seats (Total: 30)
	Tu 5:00pm - 6:50pm	TYD 2111
0201	Suh Hwang	Seats (Total: 30)
	Tu 5:00pm - 6:50pm	TYD 2110

EDCI475 Embracing Diversity in the Classroom Community

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Admission to teacher education program; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI475 or EDCI488L. Formerly: EDCI488L.

An exploration of the richness and complexity of student diversity that teacher candidates will encounter in K-12 classrooms. Students will engage in critical reflection around diversity and equity issues.

0101	Daniel Vivas	Seats (Total: 25)
	M 4:15pm - 7:00pm	ASY 3219

EDCI480 Practices in Secondary School Science Teaching

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDCI470. Corequisite: EDCI471 and EDCI474. Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Secondary Educ: Science program. Or minimum cumulative GPA of 2.75. Credit only granted for: EDCI480 or EDCI488J. Formerly: EDCI488J.

Analyses of student thinking, instructional interpretations, strategies, and techniques in the teaching internship.

Location to be announced and will occur in a local school.

0101	Tranae Johnson	Seats (Total: 10)
	W 5:15pm - 7:15pm	ASY 3215

EDCI481 Student Teaching: Elementary

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDCI352, EDCI362, EDCI342, EDCI372, and EDCI322. Corequisite: EDCI464.

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department; and must be in Elementary Education program; and minimum cumulative GPA of 2.75.

Limited to elementary majors who have previously applied. Students must pay a \$750.00 lab fee.

0101	Leslie Gettier	Seats (Total: 82)
	W 2:00pm - 4:00pm	Location: TBA
	Contact instructor or department for details.	

EDCI488M Selected Topics in Teacher Education; Knowing and Learning

(Perm req)

Credits: 3 Grading Method: Regular, General Education: DSHU,
Pass-Fail, Audit DVCC

0101	Anita Sanyal	Seats (Total: 20)
	M 4:00pm - 6:50pm	EDU 1121

EDCI489 Field Experiences in Education

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

EDCI489C Field Experiences in Education; Internship

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

0101	Margaret Peterson	Seats (Total: 30)
	Contact instructor or department for details.	
	<i>Participants will intern in a local elementary school 1.5-2 days each week. A bi-weekly seminar with the PDS Coordinator is included in this time. There is a lab fee of \$135 associated with this course. TEAM 1: Mondays and Tuesdays.</i>	
0201	Susan Denvir	Seats (Total: 30)
	Contact instructor or department for details.	
	<i>Participants will intern in a local elementary school for 1.5-2 days each week. A bi-weekly seminar with the PDS Coordinator is included in this time. There is a lab fee of \$135 associated with this course. TEAM 2: Tuesdays and Wednesdays.</i>	
0301	Tracy Dunheimer	Seats (Total: 30)
	Contact instructor or department for details.	
	<i>Participants will intern in a local elementary school for 1.5-2 days week. A bi-weekly seminar with the PDS Coordinator is included in this time. There is a lab fee of \$135 associated with this course. TEAM 3: Wednesdays and Thursdays.</i>	

EDCI498
Special Problems in Teacher Education

(Perm req)

Credits: 1-6

 Grading Method: Regular,
Pass-Fail, Audit

Individual study of approved problems.
Contact department for information to register for this course.

EDCI600
Trends in Art Education Curriculum

Credits: 3

 Grading Method: Regular,
Audit

Recent developments in art education.
Contact department for information to register for this course.

EDCI606
Learning and Teaching Biological Sciences

Credits: 3

 Grading Method: Regular,
Audit

Restriction: Enrollment in an EDCI Outreach Program in science education; or must be in Curriculum and Instruction (Master's) program; or permission of instructor.
Engagement in laboratory and inquiry-based methods to develop coherent understandings about the natural world and explore issues learning in biology. Personal engagement with phenomena and reflection on the learning and instructional experiences.

Contact department for information to register for this course.

EDCI611 Studying Student Learning in Diverse Settings

Credits: 3 Grading Method: Regular,
Audit

This course deepens teacher understanding of student development and th cultural context for teaching through readings and focused field studies. Participants will also begin developing skills needed for investigations using methods of interpretive inquiry.

IH60	Taharee Jackson	Seats (Total: 25)
	W 5:30pm - 8:30pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to program participants.</i>		
IH61	Tamara Clegg	Seats (Total: 25)
	W 5:30pm - 8:30pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to program participants.</i>		

EDCI612 Assessing Student Learning and Development

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDCI612 or EDCI788S. Formerly: EDCI788S.

Prepares experienced teachers to assess student knowledge, strategies and skills over time so that they can design instruction that builds on student strengths and addresses student needs. Teachers will study the purposes of assessment including school and student needs. Teachers will study the purposes of assessment including school and teacher accountability, student placement, course grade assignment and instructional design. They also will explore types of formal and informal assessment, curriculum-based and curriculum-free assessment, external and teacher made assessment.

0101	Peter Afflerbach	Seats (Total: 30)
	W 4:15pm - 7:00pm	EDU 2119

EDCI613 Practice and Theory in Teaching Second Language Learners

Credits: 3 Grading Method: Regular,
Audit

Corequisite: EDCI637 or EDCI689; or permission of EDUC-Teaching, Learning, Policy and Leadership department. Credit only granted for: EDCI613 or EDCI688B. Formerly: EDCI688B.

Focuses on issues that arise while teaching second language (ESOL or foreign language) learners. Supports implementation of theory into practice and research-based best practices during teaching internship, and completion of teaching portfolio during a second field experience.

0101	Margaret Ditter	Seats (Total: 10)
	M 5:00pm - 7:45pm	Location: TBA
0201	Margaret Ditter	Seats (Total: 5)
	Contact instructor or department for details.	
IH60	Margaret Ditter	Seats (Total: 25)
	M 5:00pm - 8:00pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to progra participants.</i>		

EDCI619 Developing a Professional Portfolio

Credits: 1 Grading Method: Regular,
 Audit

Students will examine issues of performance assessment and develop professional portfolios following the guidelines established by the National Board for Professional Teaching Standards. Drawing on the research data collected throughout their program and relying on inquiry, reflections, and analysis, they will synthesize and present the body of their teaching experience.

Contact department for information to register for this course.

EDCI620 Trends in Secondary School Curriculum: Social Studies

Credits: 3 Grading Method: Regular,
 Audit

Recent developments in educational thinking and practice on the curriculum in social studies.

IH60	Catherine McCall	Seats (Total: 25)
	M 5:30pm - 8:30pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to progra participants.</i>		

EDCI622 Teaching Social Studies in Elementary Schools

Credits: 3 Grading Method: Regular,
 Audit

Examination of current literature and research in the social sciences as they relate to social studies curriculum and instruction.

Contact department for information to register for this course.

EDCI625**Reading, Cognition, and Instruction: Reading in the Content Areas I**

Credits: 3

Grading Method: Regular

Provides middle and secondary education students with an understanding of the interactive nature of the reading process, the use of research-based instructional strategies, the relationship between vocabulary development and student concept development, the design of strategic reading instruction, the methods for assessing content area literacy, and the ability to plan instruction and communicate with students, parents, and allied professionals.

0101	Ying Alice Zhang	Seats (Total: 15)
	Tu 5:30pm - 8:00pm	JMZ 2125
IH60	Ayanna Baccus	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
<i>TLPL MCERT Program Outreach Offering. Registration restricted to progra participants.</i>		

EDCI631**Student Assessment in the Second Language Classroom**

Credits: 3

Grading Method: Regular,
Audit

Analysis of standardized and teacher-made FL/ESL tests; emphasis on principles of FL/ESL test construction. Field testing of commercial and teacher-made materials.

0101	Natalia Guzman	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

EDCI632**Special Education and Oral Language Development in TESOL**

Credits: 3

Grading Method: Regular

Credit only granted for: EDCI632 or EDCI788L. Formerly: EDCI788L.

Understanding of pre-referral, referral, assessment and identification process, as well as instruction of English Language Learners with learning disabilities. Required for TESOL Certification program.

0101	Drew Fagan	Seats (Total: 20)
	Th 5:00pm - 7:45pm	ARC 1101
<i>For EDCI majors only.</i>		
IH60	Megan DeStefano	Seats (Total: 25)
	Th 5:00pm - 7:45pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to program participants.</i>		

EDCI633 Teaching for Cross Cultural Communication

Credits: 3 Grading Method: Regular,
 Audit

Theories of intercultural communication and techniques for applying them in the teaching of English as a second language (ESL) and content classes. Research and evaluation of selected aspects of a culture as basis for creating, selecting and using culturally-responsive teaching materials and methods.

Some sessions will be conducted online.

0101	Kellie Rolstad	Seats (Total: 5)
	Th 2:00pm - 4:45pm	SQH 1101

EDCI636 Teaching ESOL Reading and Writing in the Elementary Classroom Areas

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDCI634.

Analysis of elementary school classroom culture, social contexts, and instructional strategies which foster language development in elementary school content areas.

Contact department for information to register for this course.

EDCI638 Teaching ESOL Reading and Writing in Secondary Content Areas

Credits: 3 Grading Method: Regular,
 Audit

Analysis of approaches to curriculum, current research, theory and pedagogy of reading and writing to second language students from diverse cultural and linguistic backgrounds. Required for TESOL certification.

0101	Tabitha Kidwell	Seats (Total: 25)
	W 5:00pm - 7:45pm	JMZ 0118

EDCI643 Teaching Language Arts in Elementary Schools

Credits: 3 Grading Method: Regular,
 Audit

Analysis of current issues, trends, and problems in language-arts instruction.

Contact department for information to register for this course.

EDCI661 Content Area Reading

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI362; or EDCI463; or students who have taken courses with comparable content may contact the department.

Research-based strategies for improving reading to learn in the content areas (K-12).

Contact department for information to register for this course.

EDCI665 Clinical Instruction in Reading

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: EDCI664; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Clinical procedures and materials for reading instruction.

For reading majors only.

0101	Ayanna Baccus	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2119

EDCI666 Leadership in Schoolwide Reading Program

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Preparation of reading personnel to function as resource persons to classroom teachers, administrators and the school community.

0101	Mariam Dreher	Seats (Total: 20)
	Th 4:15pm - 7:15pm	KNI 1105

EDCI667 Multicultural Materials and Instruction for K-12 Readers

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDCI667 or EDCI688E (as offered in Spring 2008). Formerly: EDCI688E.

An exploration of the multicultural materials and instructional strategies that create responsive K-12 classrooms and curricula for diverse readers.

0101	Jennifer Turner	Seats (Total: 20)
	W 4:30pm - 7:15pm	TWS 1313

EDCI673 Assessing, Diagnosing, and Teaching Writing

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Examines current theory, research, best practice, curricula and materials for teaching written communication in middle and secondary schools in order to survey, review and select formal and informal assessments and diagnostic strategies useful for writing teachers. Focuses on validity and reliability issues. Includes instructional planning and development of instructional materials for implementing appropriate individual, small-group and large-group instruction. English Language Learner (TESOL and SIOP) and special needs (inclusion) pupil issues considered.

IH60	Kathleen Travers	Seats (Total: 25)
	Tu 5:30pm - 8:30pm	Location: TBA
<i>TLPL MCERT Program Outreach Offering. Registration restricted to progra participants.</i>		

EDCI676 Reflection and Practice in Secondary School Science Teaching

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDCI675; or permission of instructor. Restriction: Must be in the Maryland Master's Certification program.

Use of classroom videotape and student work as data for teachers to analyze their students' thinking and discuss instructional interpretation, strategies, and techniques in the specific contexts of their classes.

Contact department for information to register for this course.

EDCI685 Research Methods

Credits: 3 Grading Method: Regular

The interpretation and conduct of research in curriculum and instruction.

0101	Thomas Davis	Seats (Total: 25)
	Th 5:00pm - 7:45pm	EDU 2121

EDCI688G Special Topics in Curriculum and Instruction; Teaching to the Common Core Standards for Mathematics with English Language Learners

Credits: 3 Grading Method: Regular,
 Audit

Contact department for information to register for this course.

Contact department for information to register for this course.

IH60	Diana Bowen	Seats (Total: 25)
	M 4:30pm - 7:30pm	Location: TBA
TLPL MCERT Program Outreach Offering. Registration restricted to progra participants.		

Contact department for information to register for this course.

0101	Perla Blejer	Seats (Total: 5)
Contact instructor or department for details.		
0201	Daisy Fredricks	Seats (Total: 10)
Contact instructor or department for details.		

CE01	Karen Rehder	Seats (Total: 25)
	Meets January 28, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	
CE02	Susan Hendricks	Seats (Total: 25)
	Meets January 25, 2016 - May 10, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required. Contact Outreach coe-outreach@umd.edu.</i>	
CE03	Peggy Wilson	Seats (Total: 20)
	Meets January 25, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	
CE04	Perla Blejer	Seats (Total: 25)
	Contact instructor or department for details.	
CE05	John Seelke	Seats (Total: 15)
	Meets January 25, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	
CE06	Tranae Johnson	Seats (Total: 15)
	Meets January 25, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	
CE07	Catherine McCall	Seats (Total: 20)
	Meets January 25, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	
CE08	Daisy Fredricks	Seats (Total: 15)
	Meets January 25, 2016 - May 14, 2016	
	Contact instructor or department for details.	
	<i>EDCI MCERT Outreach Offering. Department permission required.</i>	

CE09	Stacy Pritchett	Seats (Total: 15)
Meets January 25, 2016 - May 14, 2016		
Contact instructor or department for details.		
<i>EDCI MCERT Outreach Offering. Department permission required.</i>		

EDCI698 Conducting Research on Teaching

(Perm req)

Credits: 1-3 Grading Method: Regular

Application of the knowledge base on effective teaching to the analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project.

EDCI OUtreach mission of department.

0101	Saroja Barnes	Seats (Total: 10)
	Th 5:00pm - 7:45pm	EDU 2212A

EDCI698A Conducting Research on Teaching

Credits: 2 Grading Method: Regular

Application of the knowledge base on effective teaching to the analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project.

Contact department for information to register for this course.

EDCI730 Language and Education

Credits: 3 Grading Method: Regular,
Audit

Dialect, language varieties in school settings; historical and current perspectives on the role of language in learning; theories of school achievement and consequences for language assessment.

0101	Jeff MacSwan	Seats (Total: 20)
	Tu 5:00pm - 7:45pm	EDU 2212

EDCI732 Second Language Acquisition

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of EDUC-Teaching, Learning, Policy and Leadership department.

Major theoretical approaches to second language acquisition. For teaching English to speakers of other languages (TESOL).

Contact department for information to register for this course.

EDCI752 Foundations of Mathematics Education II: Theory and Research on Mathematics Teaching

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDCI751; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Knowledge of and insights into how mathematics has been and is being taught; theories about how it might be taught. Familiarity with the methods used to do research on teaching and to improve teaching.

0101	Lawrence Clark	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 3315

EDCI758 Research Seminar in Mathematics and Science Education

Credits: 1 Grading Method: Regular,
 Audit

Read, plan, conduct, and report on research projects and research topics in mathematics and science education. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.

0101	Patricia Campbell	Seats (Total: 25)
	F 10:00am - 1:00pm	EDU 2121

EDCI770 Foundations of Science Education

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDCI670 or EDCI671; or permission of EDUC-Teaching, Learning, Policy and Leadership department.

Development of science education; pre-kindergarten through college; the influences on current and future practices; and the identification and critical analysis of topics in science education.

0101	Diane Ketelhut	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2212

EDCI786 Black and Latino Education: History and Policy

Credits: 3 Grading Method: Regular, Audit

Recommended: EDCI776; and completion of EDSP611 recommended.

Examination of the historical legacies and contemporary policies that have contributed to the educational status (K-20) of Blacks and Latinos in the United States from the 19th century to the present. Issues surrounding language, immigration, racism, social class, and state and federal policies will also be analyzed.

0101	Jason Rivera	Seats (Total: 20)
	Th 4:15pm - 7:00pm	WDS 0104

EDCI788 Selected Topics in Teacher Education; Selected Topics in Teacher Education

Credits: 1-3 Grading Method: Regular,
Audit

Current topics and issues in teacher education.

Contact department for information to register for this course.

EDCI788D Selected Topics in Teacher Education; Foundations in Applied Linguistics

Credits: 3 Grading Method: Regular,
Audit

Current topics and issues in teacher education.

0101	Melinda Martin-Beltran	Seats (Total: 20)
	M 1:00pm - 3:45pm	TWS 1313

EDCI788P Selected Topics in Teacher Education; Research and Technology

Credits: 3 Grading Method: Regular,
Audit

Current topics and issues in teacher education.

0101	Diane Ketelhut	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2121

EDCI788R Selected Topics in Teacher Education; Applied Linguistics Doctoral Seminar

Credits: 1 Grading Method: Regular,
Audit

Current topics and issues in teacher education.

0101	Melinda Martin-Beltran	Seats (Total: 19)
	M 11:30am - 12:45pm	EDU 2101

EDCI792 Qualitative Research II: Analysis and Interpretation of Data

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDCI791. Credit only granted for: EDCI692 or EDCI792. Formerly: EDCI692.

Uses data collected in EDCI791 to consider methods of on-going data analysis, ways of knowing and writing about field research, issues of reflexivity, and the ethical and political decisions involved in crafting text. Students will read literature on and exemplars of multiple modes of qualitative data analysis and interpretation.

0101	Tara Brown	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 1107

EDCI798 Special Problems in Teacher Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Intended for Masters, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDCI798B Special Problems in Teacher Education; Revisioning Teacher Education

Credits: 1-3 Grading Method: Regular,
Audit

Intended for Masters, AGS, or doctoral students in education who desire to pursue a research problem.

Meets 1st Wednesday of each month (Feb-May).

0101	David Imig	Seats (Total: 15)
	W 11:15am - 2:50pm	EDU 2212A

EDCI799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDCI888 Apprenticeship in Education

(Perm req)

Credits: 1-8

Grading Method: Regular,
Audit

Apprentice practice under professional supervision. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCI889

Internship in Education

(Perm req)

Credits: 3-8

Grading Method: Regular,
Audit

Internship experiences with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCI898

Pre-Candidacy Research

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EDCI899

Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

EDCP

**Education Counseling and
Personnel Services**

Spring 2016

Additional courses are located under the HESI heading.

EDCP108B

College and Career Advancement: Concepts and Skills; Learning Strategies

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Beverly Greenfeig	Seats (Total: 20)
	Meets February 3, 2016 - May 4, 2016	
	W 2:00pm - 3:20pm	ASY 3221
	<i>Closed to seniors.</i>	

0201	Shirley Browner	Seats (Total: 20)
	Meets February 4, 2016 - May 5, 2016	
	Th 2:00pm - 3:20pm	ASY 3221
	<i>Closed to seniors.</i>	
0401	Kimberly Bethea	Seats (Total: 32)
	Meets March 21, 2016 - May 10, 2016	
	Class time/details on ELMs	ONLINE
	<i>This is an online class. There will be one individual meeting with the instructor - to be arranged. Course registration is closed to seniors. Seniors may request enrollment with permission from the instructor and only if seats are available. For more information, please contact the course instructor by email.</i>	
0501	Katie Koo	Seats (Total: 20)
	Meets February 1, 2016 - May 6, 2016	
	Class time/details on ELMs	ONLINE
	<i>This is an online version for students who are not able to attend the face-to-face class options. There will be one individual meeting with the instructor- to be arranged. For more information, please contact the course instructor by email. Closed to seniors.</i>	

EDCP108C

College and Career Advancement: Concepts and Skills; Career Clarification: Choosing a Major

Credits: 1

Grading Method: Regular

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Recommended for freshman and sophomores needing to choose or clarify an academic major. Students actively participating in this course will have identified at least two viable majors by the conclusion of this course. Juniors by permission of instructors. All sections of EDCP108, except EDCP108D, EDCP108J, and EDCP108R are closed to Seniors.

0101	Kimberly Campbell	Seats (Total: 20)
	Meets February 2, 2016 - April 5, 2016	
	Tu 9:00am - 10:50am	EDU 3233
0201	Rashanta Bledman	Seats (Total: 20)
	Meets February 4, 2016 - April 14, 2016	
	Th 3:00pm - 4:50pm	JMZ 1124

EDCP108I

College and Career Advancement: Concepts and Skills; Academic Transitions to Internships

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

Recommended for students who have never had an internship and are actively searching for one. Not recommended for graduating seniors.

0101	Erin Rooney-Eckel Meets March 28, 2016 - May 10, 2016 Class time/details on ELMs	Seats (Total: 25) ONLINE
0201	Erin Rooney-Eckel Meets March 28, 2016 - May 10, 2016 Class time/details on ELMs	Seats (Total: 25) ONLINE
0301	Erin Rooney-Eckel Meets March 28, 2016 - May 10, 2016 Class time/details on ELMs	Seats (Total: 25) ONLINE

EDCP108M College and Career Advancement: Concepts and Skills; Math Study Skills and Building Confidence

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

This is an online class. There will be one individual meeting with the instructor - to be arranged. For more information, please contact the course instructor by email. This course is recommended for students enrolled in or planning to enroll in a math class and needing math study skills and confidence building. Course registration is restricted to freshmen and sophomore students. Other students may request enrollment with permission from the instructor and only if seats are available. Once registered, please check your email for information about the first class meeting.

0301	Mark Montgomery Class time/details on ELMs	Seats (Total: 20) ONLINE
<i>Registration closed to seniors.</i>		

EDCP108N College and Career Advancement: Concepts and Skills; Diversity Issues and Academic Strategies for Success

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Knowledge and skills designed to enhance college as a learning experience or preparation for life.

0101	Christopher Lester	Seats (Total: 40)
	W 6:00pm - 7:50pm	HBK 0302H
<i>Permission of Instructor needed. For CSS scholars.</i>		
0201	Christopher Lester	Seats (Total: 50)
	TBA	HBK 4205
<i>Course meets in room H.</i>		

EDCP220

Introduction to Human Diversity in Social Institutions

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DVUP

This highly-interactive format focuses on individual and social identities in the U.S., group differences and intergroup relations, systems of privilege and oppression, and advocacy for social justice. Topics will include diversity related to race, ethnicity, gender, sexual orientation, social class, (dis)ability, and religion. Course fulfills CORE requirements in diversity, social/behavioral bases, and interdisciplinary study. Some sections restricted.

0101	Jeffrey Yeung	Seats (Total: 25)
	MW 11:00am - 12:15pm	EDU 2119
0201	Blakely Mulder	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	SKN 1115

EDCP298

Special Problems in Counseling and Personnel Services

Credits: 1-3 Grading Method: Regular, Pass-Fail

Individual instruction in special problems related to counseling, student leadership, and college student development.

Contact department for information to register for this course.

EDCP310

Peer Counseling Theory and Skills

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The theories and skills of peer helping relationships. Counseling theories and skills at a level appropriate for students seeking basic level training for use in peer counseling settings.

0101	Antoinette Goldthrite	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	JMZ 0122

0201	Tae Keum MW 11:00am - 12:15pm	Seats (Total: 24) TWS 0205
0301	Yun Lu MW 11:00am - 12:15pm	Seats (Total: 24) KEY 0103
0401	Elizabeth Reeves TuTh 3:00pm - 4:15pm	Seats (Total: 24) JMZ 0125
0501	Glenn Ireland TuTh 2:00pm - 3:15pm	Seats (Total: 24) KNI 1105
0601	Michal Boyars MW 4:00pm - 5:15pm	Seats (Total: 24) TYD 1108

EDCP386
Experiential Learning

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.

Special EDCP form required.

Contact department for information to register for this course.

EDCP489
Field Experiences in Counseling and Personnel Services

(Perm req)

Credits: 1-4 Grading Method: Regular General Education: DVUP

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDCP498
Special Problems in Counseling and Personnel Services

(Perm req)

Credits: 1-3 Grading Method: Regular

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP498A
Special Problems in Counseling and Personnel Services: Education and Counseling Issues for Asian Americans

Credits: 3 Grading Method: Regular, , D
Audit

Also offered as AAST498A and EDCP798A. Credit granted for EDCP498A, AAST498A, or EDCP798A.

0101	Julie Park	Seats (Total: 20)
	W 1:30pm - 4:00pm	EDU 1315

EDCP498B Special Problems in Counseling and Personnel Services; From Africa to South America - The Afro-Brazilian Experience

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Available only to major students who have formal plans for individual study of approved problems.

Contact department for information to register for this course.

EDCP499A Workshops, Clinics, Institutes; Transition to Careers in the Global Workplace

Credits: 2 Grading Method: Regular

The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the Department of Counseling and Personnel Services (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing; clinical experiences in counseling and testing centers, reading clinics, speech therapy laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups.

For Juniors and Seniors only. The purpose of this course is to help Juniors/Seniors identify meaningful career paths and continuing education plans following college graduation.

0101	Roger Worthington	Seats (Total: 15)
	Tu 8:00am - 9:50am	EDU 1107

EDCP611 Career Development Theory and Programs

Credits: 3 Grading Method: Regular,
Audit

Research and theory related to career and educational decisions; programs of related information and other activities in career decision.

Contact department for information to register for this course.

EDCP612 Multicultural Issues in Counseling and Personnel Services

Credits: 3 Grading Method: Regular,
Audit

Socio-psychological, philosophical, clinical, and research topics related to the provision of counseling and personnel services, academic support, and career development for minority students on predominantly white college and university campuses. Implications of race and/or national origin on opportunities for personal, social, academic, and career development in educational settings.

0101	Matthew Miller	Seats (Total: 15)
	M 1:00pm - 4:00pm	EDU 3236

EDCP615 Counseling I: Appraisal

Credits: 3 Grading Method: Regular,
Audit

Corequisite: EDCP618. Restriction: Must be in a major within EDUC-Counseling, Higher Education and Special Education department.

*Collection and interpretation of appraisal data, synthesis of data through case study procedures.
Development of interview skills.*

0101	Ellen Fabian	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2102

EDCP619D Practicum in Counseling; Practicum in School Counseling

Credits: 3 Grading Method: Regular

Sequence of supervised counseling experiences of increasing complexity. Limited to eight applicants in advance. Two hours class plus laboratory.

0101	Natasha Mitchell	Seats (Total: 12)
	W 4:15pm - 7:00pm	KNI 1103
0201	Richard Shin	Seats (Total: 12)
	W 4:15pm - 7:00pm	EDU 2102

EDCP625 Counseling the Chemically Dependent

Credits: 3 Grading Method: Regular,
Audit

Chemical dependency and its effects on the individual's personal, social, and work functioning.
Counseling procedures for persons with drug and alcohol problems.

0101	Paul Gold	Seats (Total: 10)
	W 4:15pm - 7:00pm	EDU 2101

EDCP630 School-Based Behavioral Interventions

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in a major in EDUC-College of Education.

Behavior assessment and intervention techniques from behavioral, cognitive-behavioral, and ecological models. Planning, implementation, and evaluation of behavior change techniques.

0101	Jill Jacobson	Seats (Total: 10)
	Tu 10:00am - 12:45pm	EDU 2101

EDCP633 Diagnostic Appraisal of Children I

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDCP632.

Assessment of development, emotional and learning problems of children.

0101	Hedwig Teglassi	Seats (Total: 10)
	Tu 10:30am - 1:15pm	EDU 3236

EDCP635 School Consultation I

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in the School Counseling program; or must be in the School Psychology program; or permission of instructor.

Theory and practice of consultation services in the school setting. Understanding of school culture. Introduction to problem solving model of case consultation for assessment and remediation of learning and behavior problems in the classroom. Practicum experience.

0101	Colleen O'Neal	Seats (Total: 10)
	M 1:00pm - 3:45pm	EDU 1315

EDCP655 Organizational Dimensions of Student Affairs

Credits: 3 Grading Method: Regular

Exploration of leadership and organizational change of student affairs programs in post-secondary education.

0101	Kimberly Griffin	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 3233

EDCP672 Individual and Organizational Assessment in Student Affairs

Credits: 3 Grading Method: Regular, Audit

An examination of the scholarship and practice of assessment of college student learning and developmental outcomes as well as organizational practices that contribute to those outcomes.

0101	Alice Mitchell	Seats (Total: 20)
	W 3:00pm - 5:45pm	JMZ 1215

EDCP680 Basic Didactic Practicum in Counseling Psychology

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Formerly: PSYC776.

In depth examination of counseling theories and techniques, and supervised experience in application of a range of counseling and therapy approaches.

0101	Pepper Phillips	Seats (Total: 8)
	Tu 12:00pm - 3:00pm	Location: TBA

EDCP686 Counseling Psychology Didactic Practicum in Career Interventions

Credits: 3 Grading Method: Sat-Fail

Prerequisite: For Counseling Psychology majors only. Formerly: EDCP777.

In depth examination of theoretical approaches and issues in career interventions; supervised experience in career counseling and assessment.

0101	Robert Lent	Seats (Total: 8)
	W 1:00pm - 4:00pm	EDU 2101

EDCP691 Research in Counseling Psychology II

Credits: 3 Grading Method: Regular

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC691. Formerly: EDCP717.

Critical analysis of trends and issues in counseling psychology science

0101	Dennis Kivlighan	Seats (Total: 10)
	Th 1:00pm - 3:50pm	JMZ 1123

EDCP693 Assessment in Counseling Psychology ii

Credits: 3 Grading Method: Regular

Prerequisite: For Counseling Psychology majors only. Also offered as: PSYC693. Formerly: EDCP789F.

Supervised experience in administration, scoring, and interpreting major psychodiagnostic instruments used by counseling psychologists, as well as writing integrative assessment reports. Emphasis on hypothesis testing approach to assessment and on the counseling interview as an assessment tool.

0101	Matthew Miller	Seats (Total: 20)
	Tu 10:00am - 1:00pm	EDU 2102

EDCP694 Student Leadership Development

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDCP694 or EDCP789D. Formerly: EDCP789D.

Explores the development of leadership among college students including the study of leadership theory; a focus on how leadership is learned and developed; cultural dimensions of leadership; and exposure to the current national scene in leadership associations, programs, and resources.

0101	Craig Slack	Seats (Total: 20)
	W 3:00pm - 5:45pm	ASY 3219

EDCP738 Practicum in Child Assessment

Credits: 3 Grading Method: Regular,
Audit

Administration of complete test batteries to children; supervision of initial interviews; test administration and scoring; interpretation and synthesis of test battery and interview material; the psychological report; verbal interpretation of test results; and recommendations. Taken initially with EDCP 633; repeated with EDCP 634 in the subsequent semester.

0101	Jill Jacobson	Seats (Total: 10)
	Th 9:00am - 12:15pm	Location: TBA

EDCP771 The College Student

Credits: 3 Grading Method: Regular,
 Audit

A demographic study of the characteristics of college students as well as a study of their aspirations, values, and purposes.

0101	Wallace Eddy	Seats (Total: 20)
	M 1:00pm - 3:45pm	ANS 0402

EDCP776 Social Justice in Student Affairs and Higher Education

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDCP771 or EDCP741; or permission of instructor. Restriction: Limited to college student personnel students only.

An exploration of differences, biases, assumptions, limitations, and challenge with diversity in the context of higher education and student affairs. Focusing on issues of inequities with social identity group membership and the systems of power, privilege, and oppression in society.

0101	Julie Park	Seats (Total: 12)
	W 9:00am - 11:45am	BPS 1232

EDCP788 Advanced Practicum

Credits: 1-6 Grading Method: Regular,
 Audit

Individual supervision in one of the following areas: (a) individual counseling, (b) group counseling, (c) consultation, or (d) administration.

5001	John Zacker	Seats (Total: 5)
	Contact instructor or department for details.	

EDCP789B Advanced Topics in Counseling and Personnel Services; Methods of Intervention

Credits: 3 Grading Method: Regular,
 Audit

0101	Cixin Wang	Seats (Total: 10)
	W 9:00am - 11:50am	KEY 0107

EDCP789E Advanced Topics in Counseling and Personnel Services; Social and Cognitive Foundations of Counseling and School Psychology

Credits: 3 Grading Method: Regular,
Audit

0101	Dennis Kivlighan	Seats (Total: 16)
	Th 9:00am - 11:50am	JMZ 3118

EDCP789J Advanced Topics in Counseling and Personnel Services; Ground Theory

Credits: 3 Grading Method: Regular,
Audit

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

EDCP789N Advanced Topics in Counseling and Personnel Services; Therapeutic Approaches with Children

Credits: 3 Grading Method: Regular,
Audit

0101	Instructor: TBA	Seats (Total: 20)
	W 5:00pm - 7:45pm	JMZ 1103

EDCP789R Advanced Topics in Counseling and Personnel Services; College Teaching Seminar

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

0101	Michelle Espino	Seats (Total: 5)
	Contact instructor or department for details.	

EDCP789T Advanced Topics in Counseling and Personnel Services; Program Planning

Credits: 3 Grading Method: Regular,
Audit

0101	Natasha Mitchell	Seats (Total: 10)
	Th 4:00pm - 7:00pm	EDU 2102

EDCP789W Advanced Topics in Counseling and Personnel Services; College Context and Institutional Types

Credits: 3 Grading Method: Regular,
 Audit

0101	Kimberly Griffin	Seats (Total: 20)
	Th 9:00am - 12:00pm	EDU 2102

EDCP798 Special Problems in Counseling and Personnel Services

(Perm req)

Credits: 1-6 Grading Method: Regular,
 Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Contact department for information to register for this course.

EDCP798A Special Problems in Counseling and Personnel Services; Asian Americans and Education

Credits: 3 Grading Method: Regular,
 Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Also offered as EDCP498A and AAST498A. Credit granted for EDCP498A, AAST498A, or EDCP798A.

0101	Julie Park	Seats (Total: 5)
	W 1:30pm - 4:00pm	EDU 1315

EDCP798P Special Problems in Counseling and Personnel Services; Seminar Paper

Credits: 1-6 Grading Method: Regular,
 Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Malta Outreach Program. Registration restricted to program participants.

Contact department for information to register for this course.

EDCP799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP870 Professional Issues Seminar

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: EDCP656 or EDCP870. Formerly: EDCP656.

Examination of issues that bear on professional issues such as ethics, inter-professional relationships and research.

0101	Paul Gold	Seats (Total: 15)
	Th 4:15pm - 7:00pm	EDU 3236

EDCP888 Apprenticeship in Counseling and Personnel Services

(Perm req)

Credits: 1-8 Grading Method: Regular,
 Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A Apprenticeship in Counseling and Personnel Services; College Student Personnel

Credits: 3 Grading Method: Regular,
 Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Marsha Guenzler-Stevens	Seats (Total: 10)
	Contact instructor or department for details.	
7201	Michelle Espino	Seats (Total: 10)
	Contact instructor or department for details.	

EDCP888C Apprenticeship in Counseling and Personnel Services; School Psychology

Credits: 1-8 Grading Method: Regular,
 Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Jill Jacobson	Seats (Total: 15)
	Contact instructor or department for details.	
0201	Hedwig Teglas	Seats (Total: 15)
	Contact instructor or department for details.	
0401	Instructor: TBA	Seats (Total: 15)
	Contact instructor or department for details.	
0501	Judith Kinney	Seats (Total: 10)
	Contact instructor or department for details.	

EDCP888G Apprenticeship in Counseling and Personnel Services; School Counseling

Credits: 3 Grading Method: Regular,
 Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Natasha Mitchell	Seats (Total: 10)
	Tu 4:00pm - 7:00pm	TWS 1320

EDCP889 Internship in Counseling and Personnel Services; Internship in Counseling and Personnel Services

Credits: 1-8 Grading Method: Regular,
 Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHD210**Foundations of Early Childhood Education**

(Perm req)

Credits: 3

Grading Method: Regular

CORE: HO

General Education: DSHS

Corequisite: EDSP211.

Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. The concept of developmentally appropriate practice and its application across different developmental levels and early childhood classrooms will be introduced and connected with discussion in EDHD220 and EDSP211. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g., poverty, immigrant status, English Language Learners), and the role of assessment in early learning.

0101	Elisa Klein	Seats (Total: 20)
	Th 1:00pm - 4:00pm	EDU 1315

EDHD220**Exploring Early Childhood General and Special Education**

(Perm req)

Credits: 3

Grading Method: Regular

General Education: DSSP

Students who are considering a career in education will consider information about the teaching profession. Students reflect on their personal strengths, identify areas of growth, and examine their predisposition to work with young children with and without disabilities. They will discuss the nature of teaching, the moral and philosophic underpinnings that influenced their decision to enter into the teaching professions, as well as the roles and responsibilities of teachers and the characteristics and qualities for effective teachers (teaching styles and teacher's primary role in the classroom).

Students should allow an appropriate amount of travel time from the off-campus experience to your classes meeting on campus.

0101	Brenda Jones Harden	Seats (Total: 6)
	Tu 2:00pm - 4:00pm	EDU 2102
	M 8:00am - 12:00pm	Location: TBA Lab
0102	Brenda Jones Harden	Seats (Total: 7)
	Tu 2:00pm - 4:00pm	EDU 2102
	Tu 8:00am - 12:00pm	Location: TBA Lab

0104	Brenda Jones Harden Tu 2:00pm - 4:00pm Th 8:00am - 12:00pm	Seats (Total: 7) EDU 2102 Location: TBA Lab
0105	Brenda Jones Harden Tu 2:00pm - 4:00pm F 8:00am - 12:00pm	Seats (Total: 6) EDU 2102 Location: TBA Lab

EDHD221

Aggression and Violence in Everyday Life: Can Violence Be Prevented?

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

History of aggression and violence in the world and in the United States. Examines the extent to which various forms are prevalent today and scientifically supported prevention strategies. Methods of studying aggression are reviewed, as are theories and methods of preventing aggression and violence.

0101	Robert Marcus Th 4:15pm - 7:00pm	Seats (Total: 60) TWS 1310
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EDHD230

Human Development and Societal Institutions

Credits: 3

Grading Method: Regular,
Audit

CORE: SB, D

General Education: DSHS,
DVUP

Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.

0101	Doireann Hobbs MW 11:00am - 12:15pm	Seats (Total: 45) EDU 1121
0201	Doireann Hobbs MW 2:00pm - 3:15pm	Seats (Total: 45) EDU 1107

EDHD231

Inside 21st Century Creativity: How Creative Ideas, Concepts, and Products are Generated

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

Mechanisms of the creative mind. Psychological, social, sociological, developmental, cultural, educational, genetic and neural based roots of creativity.

0201	Jeeyoung Noh MW 11:00am - 12:15pm	Seats (Total: 45) EDU 1107
0301	Brandee Feola TuTh 9:30am - 10:45am	Seats (Total: 45) EDU 1121
0401	Robert Marcus Tu 4:15pm - 7:00pm	Seats (Total: 45) EDU 3315

EDHD386

Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Permission of EDUC-Human Development and Quantitative Methodology department; and junior standing or higher.

Contact department for information to register for this course.

EDHD400

Introduction to Gerontology

Credits: 3 Grading Method: Regular, General Education: DSHS
Audit

Multidisciplinary survey of the processes of aging. Physiological changes, cultural forces, and self-processes that bear on quality of life in later years. Field study of programs, institutions for elderly, individual elders, their families and care providers.

0101	Megan Hurley Th 9:30am - 12:15pm	Seats (Total: 40) ONLINE
0201	Megan Hurley W 9:30am - 12:15pm	Seats (Total: 40) ONLINE

EDHD402

Social Development

Credits: 3 Grading Method: Regular

Recommended: EDHD411.

Social Development. Critical concepts and ideas of the study of child and adolescent social development. Focus on changes in interpersonal relationships, emotions, achievement-related behavior and competence, and functioning within the broader social context.

0101	Kathryn Wentzel W 1:00pm - 3:45pm	Seats (Total: 40) TYD 2102
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EDHD411 Child Growth and Development

Credits: 3 Grading Method: Regular, General Education: DSHS
 Audit

Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.

0101	Geetha Ramani	Seats (Total: 40)
	MW 11:00am - 12:15pm	SQH 1117
0201	Lucas Butler	Seats (Total: 40)
	Tu 1:00pm - 3:45pm	SQH 1119

EDHD412 Infant Development

Credits: 3 Grading Method: Regular General Education: DSHS

Infant development across domains, including perceptual, motor, cognitive, language, social and emotional functioning from pre-natal through third year of life.

0101	Alexa Romberg	Seats (Total: 40)
	Tu 9:30am - 12:15pm	TWS 1310

EDHD413 Adolescent Development

Credits: 3 Grading Method: Regular, General Education: DSHS
 Audit

Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.

0101	Jennie Lee-Kim	Seats (Total: 40)
	TuTh 9:30am - 10:45am	EDU 3315
<i>Restricted to major codes 0831L,0831P, 0834L, 0834P, 0833L, 0833P, 0840L, 0840P, 0841L, 0841P, 0842L, 0842P, 08320, 0804L and 0804P.</i>		
0201	Jennie Lee-Kim	Seats (Total: 40)
	MW 11:00am - 12:15pm	HBK 0109

EDHD415 Promoting the Social-Emotional Competence of Young Children in Inclusive Classrooms

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: EDHD314 and EDHD425; and (EDHD419 or EDSP420). Corequisite: EDSP423, EDSP424, and EDHD431. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and junior standing or higher; and minimum cumulative GPA of 2.75.

Teachers must have knowledge and skill regarding how to appropriately manage the classroom so that all children, those with and without disabilities, will be able to learn from their school experiences. Classroom management extends beyond responding to student misbehavior to include a comprehensive approach to addressing the social/emotional competence of typically and atypically developing children. The goal of this course is to prepare early childhood teachers who are able to sensitively, responsively, and effectively manage a classroom of young students who are typically developing and those who have disabilities. Includes Field Experience.

0101	Brenda Jones Harden	Seats (Total: 25)
	W 1:00pm - 3:00pm	JMZ 3203
	Contact instructor or department for details.	

EDHD420 Cognitive Development and Learning

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDHD320, EDHD411, PSYC341, or PSYC355; or permission of EDUC-Human Development and Quantitative Methodology department.

Current developmental theories of cognitive processes such as language, memory, and intelligence and how differences in cognitive level (infancy through adolescence) mediate learning of educational subject matters.

0101	Richard Prather	Seats (Total: 40)
	MW 11:00am - 12:15pm	ARC 1105

EDHD424 Culture, School & Community: Contexts for Learning (PreK-3rd)

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: EDHD425 and EDHD314; and (EDHD419 or EDSP420). Corequisite: EDSP315, EDHD431, EDHD415, and EDSP423. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and junior standing or higher; and minimum cumulative GPA of 2.75.

Explores the development of the young child (with and without disabilities, as well as those at environmental risk) in the context of the family and community, with emphasis on the impact of state, federal and school system policy on the child's world. Course will consider issues within the family, and the wider socio-cultural ecology that relate to the child's ability to develop and learn. In addition, students will develop strategies for respectful and culturally responses approaches to actively engage families in their children's development and learning. Includes Field Experience.

0101	Christy Tirrell-Corbin	Seats (Total: 25)
	W 10:00am - 12:00pm	EDU 3236
	Contact instructor or department for details.	

EDHD425 Language Development and Reading Acquisition

Credits: 3 Grading Method: Regular

This course focuses on young children's language development and the relationship between language and reading acquisition. Students will learn: concepts central to language development; language achievements at different ages; concepts of emergent literacy; models of reading acquisition and skilled reading.

0101	Min Wang	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	EDU 2119
0201	Alexa Romberg	Seats (Total: 40)
	MW 2:00pm - 3:15pm	EDU 3315

EDHD426 Cognition and Motivation in Reading: Reading in Content Areas I

(Perm req)

Credits: 3 Grading Method: Regular

Students preparing for secondary teaching will learn the cognitive and motivational aspects of reading and learning from text in subjects of literature, science, history and mathematics. Different structured approaches to using text for content learning are presented. Classroom contexts that enable students to engage productively with diverse texts and internet resources are identified.

Restricted to major codes 0831L, 0831P, 0833L, 0833P, 0843L, 0834P, 0840L, 0840P, 0841L, 0841P, 0842L, 0842P, 0843L, 0843P, 0844L, 0844P.

0101	Daphne Williams	Seats (Total: 45)
	Tu 7:00pm - 9:45pm	EDU 3315

EDHD430 Adolescent Violence

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Examines the roots of violence among adolescents and the extent to which this constitutes a problem in various settings. Research studies on its origins, prevention and intervention and implications for social policy are examined.

0101	Robert Marcus	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	EDU 1121

EDHD431 **Child Development and Learning, Three to Eight Years**

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in EDHD314 and EDHD425; and 1 course with a minimum grade of C- from (EDHD419, EDSP420). Corequisite: EDSP423 and EDSP315; and TRACK I: Must be concurrently enrolled in EDSP430, EDSP433; or TRACK 2: Must be concurrently enrolled in EDHD415, EDHD424.

Provides a basic understanding of child development theory and research, as well as specific knowledge about the development of children during the early and middle childhood "stages," specifically from ages 3 years to 8 years. A major emphasis will be the application of theory and research from the field of educational psychology to an understanding of how young children learn and achieve academically. Because the course will address the developmental and academic functioning of children with and without disabilities, a particular focus will be on individualization.

0101	Elisa Klein	Seats (Total: 28)
	Tu 1:00pm - 4:00pm	EDU 0306

EDHD432 **Student Teaching Pre-K-3**

Credits: 12 Grading Method: Sat-Fail

Prerequisite: EDHD323, EDHD322, EDHD321, EDHD435, and EDHD427. Corequisite: EDCI464. Restriction: Must be in Early Childhood Education program; and senior standing or higher.

Students must pay a \$750.00 lab fee.

0101	Rebecca Hessong Grove	Seats (Total: 40)
	Contact instructor or department for details.	

EDHD436 **Cognition and Motivation in Reading: Reading Acquisition for Middle School Students**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Cognitive and motivational processes of reading and learning from texts across subjects. Structured approaches to using text for content learning based on approaches to knowledge, motivation, and strategies. Classroom contexts that enable middle school students to engage with diverse texts and Internet resources are provided.

0101	Renae McPherson	Seats (Total: 30)
	Th 4:15pm - 7:00pm	JMZ 1103
<i>Restricted to 0804L and 0804P major codes.</i>		

EDHD460
Educational Psychology

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHS

Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.

Application of psychology to learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings.

0101	Geetha Ramani	Seats (Total: 45)
	MW 2:00pm - 3:15pm	HBK 0115

EDHD489
Field Experiences in Education

(Perm req)

Credits: 1-4

Grading Method: Regular,
Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHD498
Special Problems in Education

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHD624
Cognitive and Motivational Bases of Reading; Reading in Content Areas I and II

Credits: 6

Grading Method: Regular,
Audit

Credit only granted for: EDHD624 or EDHD779G. Formerly: EDHD779G.

Fundamental processes of student engagement in reading for secondary teachers. Processes related to how middle school and high school students gain knowledge in content fields, how students learn and use strategies for gaining knowledge, and motivations for learning from a variety of texts.

Contact department for information to register for this course.

EDHD629 Seminar for the Center for Children, Relationships, and Culture

Credits: 1 Grading Method: Regular,
 Audit

A seminar and colloquia series featuring speakers from the department, the college, the university, and other universities and institutions from across the world that aims to cover issues pertaining to contemporary theory and research in human development.

0101	Allan Wigfield	Seats (Total: 25)
	W 12:20pm - 2:45pm	EDU 1121

EDHD635 Adolescents at Risk

Credits: 3 Grading Method: Regular,
 Audit

Recommended: EDHD600. Credit only granted for: EDHD635 or EDHD779L. Formerly: EDHD779L.

Study of current research on risky behaviors that impact adolescent student learning and achievement particular in underserved populations. General diversity issues and topics specific issues that put adolescents at risk for academic failure and other negative trajectories will be explored.

Contact department for information to register for this course.

EDHD674 Self Processes in Adolescence: Implications for Academic Achievement and School Adjustment

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: EDHD619L or EDHD674. Formerly: EDHD619L.

Study of the development of the self from infancy through adolescence, and examination of the literature on the self processes of special adolescent populations as they relate to achievement-related orientations and school adjustment in secondary settings.

Contact department for information to register for this course.

EDHD718 Apprenticeship in College Teaching

(Perm req) Credits: 1 Grading Method: Regular

For graduate students teaching autonomously for the first, second, or third term at the University of Maryland, College Park; not intended for teaching assistants. This course provides graduate student teachers with a set of structured experiences that foster professional growth and development in the role of college instructor. Includes seminars on the scholarship of college teaching and principles of optimal college classroom environments, peer and faculty in-class observations of teaching, and guided reflective analysis of experience in the classroom.

0101	Ann Battle	Seats (Total: 10)
	F 1:00pm - 3:30pm	EDU 3236

EDHD775

Human Development and Neuroscience

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: EDHD601; or permission of EDUC-Human Development and Quantitative Methodology department.

Course focuses on the biological bases of human behavior including physiological processes which have an impact on human development.

0101	Donald Bolger	Seats (Total: 20)
	M 1:00pm - 3:45pm	EDU 2101

EDHD780

Research Methods in Human Development

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDMS651; or permission of EDUC-Human Development and Quantitative Methodology department.

Research methodology for studying human development: research design, hypothesis formulation, instrument development, methodological and statistical approaches, survey of methodologies.

0101	Kathryn Wentzel	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 1315

EDHD789

Internship in Human Development

(Perm req)

Credits: 3-8 Grading Method: Regular,
Audit

Internship experience in one or more human service agencies in the community.

Contact department for information to register for this course.

EDHD798

Laboratory in Human Development

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Independent research supervised by an instructor in a research setting.

Limited to human development majors.

Contact department for information to register for this course.

EDHD799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for master's thesis.

Limited to human development majors.

Contact department for information to register for this course.

EDHD888 Apprenticeship in Human Development Research

(Perm req)

Credits: 1-8 Grading Method: Regular,
Audit

Apprenticeship in Human Development research.

Contact department for information to register for this course.

EDHD889 Practicum in Human Development

(Perm req)

Credits: 3-8 Grading Method: Regular,
Audit

Field experience in applied human development at a professional level o competence in a particular role with appropriate supervision.

Contact department for information to register for this course.

EDHD898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHD899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to 12-18 hours for a Ph.D. dissertation.

Limited to human development majors.

Contact department for information to register for this course.

**EDHI Education Leadership, Higher Ed
and International Ed**

Spring 2016

EDHI338 Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Intergroup Dialogue I

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Prerequisite: To register for EDPL338, you must first complete an on-line registration form.

Contact department for information to register for this course.

EDHI338A

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Race/Ethnicity

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Beth Cohen, Tricia Homer, Meghan Bowden, Jacqueline Pearce Garrett Meets January 25, 2016 - March 12, 2016 Tu 5:30pm - 7:30pm	Seats (Total: 14) MMH 2411C
0201	Beth Cohen, Erica Smith, Benjamin Parks Meets March 22, 2016 - May 3, 2016 Tu 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411C

EDHI338C

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Gender

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Jude Paul Dizon, Tiffany Harris, Beth Cohen Meets January 25, 2016 - March 12, 2016 Tu 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411B
0201	Glenn Ireland, Judith Martinez, Beth Cohen Meets March 21, 2016 - May 2, 2016 M 4:30pm - 6:30pm	Seats (Total: 14) MMH 2411C

EDHI338F

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Lesbian, Gay, Bisexual, Transgender, and Queer Peer Education

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Must obtain permission to register by emailing the instructor, Luke Jensen at ljensen@umd.edu.

0101	Luke Jensen Contact instructor or department for details.	Seats (Total: 14)
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EDHI338G

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Religious Bias

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0201	Beth Cohen, Jeremy Gombin-Sperling, Jacqueline Mac, Mary Kay Totty	Seats (Total: 14)
	Meets March 13, 2016 - May 10, 2016	
	Tu 6:30pm - 8:30pm	MMH 2411C

EDHI338K

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Socioeconomic Status

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Jeffrey Yeung, Benjamin Parks, Beth Cohen	Seats (Total: 14)
	Meets January 25, 2016 - March 12, 2016	
	Tu 4:30pm - 6:30pm	CCC 1105

EDHI338W

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Size and Appearance

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

0101	Kevin Webb, Erin McClure, Kumea Shorter-Gooden Meets January 25, 2016 - March 12, 2016 M 6:30pm - 8:30pm	Seats (Total: 14) MMH 2411C
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EDHI338Y

Teaching and Learning about Cultural Diversity through Intergroup Dialogue; Social Justice Awareness and Allyship in Greek Life

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DVCC

Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on difficult topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.

Must be involved in Greek Life. Email Nathan Bunch at nbunch@umd.edu for department permission.

0101	Nathan Bunch, Tricia Homer, Beth Cohen TuTh 2:00pm - 3:15pm	Seats (Total: 20) KEY 0119
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EDHI489

Field Experiences in Education

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI498

Special Problems in Education

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDHI607

Culture and Education in a Global Context

Credits: 3 Grading Method: Regular,
Audit

Examines cultural theories and analyzes cultural influences in education. Course materials and discussion critically analyze cultural transmission and schooling practices. Also examined are politics of culture, multiculturalism, global cultural clashes, and educators as critical culture workers.

0101	Jing Lin	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1315

EDHI608

Gender and Education

Credits: 3 Grading Method: Regular, Audit

The course examines feminist theories on gender inequity, and analyzes social impacts on girls' and women's education. Also examined are women's ways of knowing, issues of race and class, gender and development, ecofeminism, and technology for women.

0101	Nelly Stromquist	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2101

EDHI646

Leading Instructional Excellence

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDHI645; or permission of instructor. Credit only granted for: EDHI646, EDPL646, or EDPS646. Formerly: EDPL646.

Leader's role in fostering high quality teaching and learning. Exploration of the relationship between curriculum instruction assessment and the organizational structure of K-12 public schooling.

Development and assessment of frameworks for understanding instructional quality. Analysis of strategies for supporting teachers as they engage in curricular and professional development.

Consideration of factors involved in creating and sustaining instructionally centered schools.

Contact department for information to register for this course.

EDHI652

Higher Education in American Society

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI652, EDPL652, or EDPS652. Formerly: EDPL652.

Examines the concepts of academic freedom, corporate autonomy and institutional accountability with emphasis on twentieth century relationships between higher education and government in the United States.

0101	Alberto Cabrera	Seats (Total: 20)
	W 7:00pm - 9:45pm	EDU 3233

EDHI653 Organization and Administration of Higher Education

Credits: 3 Grading Method: Regular

Credit only granted for: EDHI653, EDPL653, or EDPS653. Formerly: EDPL653.

Basic concepts and terminology related to organizational behavior and institutional governance structures. The governance and organization of higher education in the United States.

0101	KerryAnn O'Meara	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 3236

EDHI662 Research on Ethnic Minorities and Demographic Trends in Higher Education

Credits: 3 Grading Method: Regular

Credit only granted for: EDHI662, EDPL662, or EDPS662. Formerly: EDPL662.

Current research on ethnic minority student populations including issues of access, campus climate, racial identity, achievement and motivation. In addition to student issues, course examines issues for faculty of color in higher education, curriculum and teaching, and leadership and governance. The application of broad demographic changes in the nation and their impact on higher education over time.

0101	Sharon Fries-Britt	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 2101

EDHI665 College Access and Choice

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI665 or EDHI788L. Formerly: EDHI788L.

Examines the college-going process, how and why some students successfully navigate it, and what policies and programs can help students from disadvantaged or underrepresented backgrounds overcome barriers to college access and entry.

0101	Alberto Cabrera	Seats (Total: 20)
	Th 4:15pm - 7:00pm	JMZ 1224

EDHI670 Learning Communities

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDHI670, EDPL670, or EDPS670. Formerly: EDPL670.

Reviews contemporary research on student and teacher learning and schools as learning organizations. It aims to build students understanding of opportunities and challenges to implementing learning environments in various educational organizations. Readings, cases and assignments emphasize students' understanding of learning theories and their application to various organizational settings.

Contact department for information to register for this course.

EDHI679 Master's Seminar

Credits: 3 Grading Method: Regular, Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDHI684 Alternative Education, Alternative Development

Credits: 3 Grading Method: Regular,
Audit

Recommended: EDHI606. Credit only granted for: EDHI684 or EDHI788D. Formerly: EDHI788D.

A critical examination of the political economy of education and international development policies and practices. Focus is on the implications of these critiques for alternative education and development policies and practices.

0101	Steven Klees	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 3233

EDHI689 Practicum In Educational Administration and Supervision

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI689Z Practicum In Educational Administration and Supervision

Credits: 1 Grading Method: Sat-Fail

Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.

Contact department for information to register for this course.

EDHI701 Applied Research and Data Based Decision Making

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Introductory knowledge of statistics. Credit only granted for: EDHI701, EDPL701, or EDPS701. Formerly: EDPL701.

Examines quantitative research methodologies and data systems used by education researchers and leaders to investigate, develop and improve school policies and practices.

IH40	Thomas Davis	Seats (Total: 16)
Meets March 4, 2016 - March 28, 2016		
F 5:00pm - 8:00pm		Location: TBA
Sa 9:00am - 4:00pm		Location: TBA
Contact instructor or department for details.		
<i>PGCPS II EdD Outreach Program. Registration restricted to program participants.</i>		

EDHI702 Advanced Seminar in Research Methods for Education Leaders

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDHI672 and EDHI701. Credit only granted for: EDHI702, EDPL702, or EDPS702. Formerly: EDPL702.

Emphasizes the application of quantitative and qualitative research methodologies to investigate a range of issues relevant to education leaders, including educational equity, efficiency, and effectiveness. Students enroll in either the qualitative or quantitative section of the course, depending on their methodological preference.

Contact department for information to register for this course.

EDHI740 Managing Educational Organizations in a Diverse Society

Credits: 3-6 Grading Method: Regular,
 Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDHI740, EDPL740, or EDPS740. Formerly: EDPL740.

Contemporary social and cultural influences that impact on the management of educational organizations in a diverse society. The effects on schools of changes in the economy, family structure, demographics and technology.

IH40	Stephanie Brown	Seats (Total: 16)
	Meets January 9, 2016 - February 14, 2016	
	F 5:00pm - 8:00pm	Location: TBA
	Sa 9:00am - 4:00pm	Location: TBA
	<i>PGCPS II EdD Outreach Program. Registration restricted to program participants.</i>	

EDHI755 Federal Policies in Post-Secondary Education

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: EDHI755, EDPL755, or EDPS755. Formerly: EDPL755.

Evolution of the federal role, its current scope and funding. Policy issues associated with federal student aid programs, research grants and social equity regulations.

0101	Marvin Titus	Seats (Total: 20)
	W 4:15pm - 7:00pm	JMZ 0120

EDHI788M Special Topics in Education Policy and Administration; State-Level Higher Education Research

Credits: 3 Grading Method: Regular,
 Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788X Special Topics in Education Policy and Administration; International Investigations in Cuban Education

Credits: 3 Grading Method: Regular,
 Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDHI788Y Special Topics in Education Policy and Administration; State Level Higher Education

Credits: 3 Grading Method: Regular,
 Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Marvin Titus	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 2102

EDHI789

Doctoral Practicum in Administration and Supervision

Credits: 1-3 Grading Method: Sat-Fail

Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.

Contact department for information to register for this course.

EDHI798

Special Problems in Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI799

Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

EDHI805

Seminar in Comparative Education

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI805, EDPL805, or EDPS805. Formerly: EDPL805.

Analysis of educational issues on a worldwide basis with opportunities to focus on a particular country on an individual basis. Analysis of qualitative research methods as used in cross-cultural and comparative education studies.

0101	Steven Klees	Seats (Total: 20)
	M 7:00pm - 9:45pm	EDU 3233

EDHI853

Leadership in Higher Education

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDHI653. Credit only granted for: EDHI853, EDPL853, or EDPS853. Formerly: EDPL853.

Theories of organizational leadership applied to institutions of higher education.

0101	Sharon Fries-Britt	Seats (Total: 20)
	Th 7:00pm - 9:45pm	EDU 3233

EDHI888 Apprenticeship in Education

Credits: 1-8 Grading Method: Regular,
Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

3501	Alberto Cabrera	Seats (Total: 5)
	Contact instructor or department for details.	

EDHI889 Internship in Education

(Perm req)

Credits: 3-8 Grading Method: Regular,
Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI895 Research Critique Seminar

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI895, EDPL895, or EDPS895. Formerly: EDPL895.

Critiques of research designs in preparation for the doctoral dissertation.

0101	KerryAnn O'Meara	Seats (Total: 20)
	Contact instructor or department for details.	

EDHI898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDHI899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDMS Measurement, Statistics, and Spring 2016

EDMS451 Introduction to Educational Statistics

Credits: 3 Grading Method: Regular, General Education: FSAR
Audit

Restriction: Sophomore standing or higher. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.

0101	Huili Liu TuTh 2:00pm - 3:15pm	Seats (Total: 30) ASY 2309
0201	Casey Archer TuTh 12:30pm - 1:45pm	Seats (Total: 30) EDU 1121
0301	Monica Morell MW 2:00pm - 3:15pm	Seats (Total: 30) JMZ 1122

EDMS645 Quantitative Research Methods I

Credits: 3 Grading Method: Regular,
Audit

Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.

0101	Hong Jiao Th 4:15pm - 7:00pm	Seats (Total: 30) EDU 1121
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EDMS646 General Linear Models I

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDMS645; or an equivalent introductory statistics course.

A first post-introductory inferential statistics course, with emphasis on analysis of variance procedures and designs from within the general linear modeling framework. Assignments include student analysis of education and related data; application of statistical software packages is emphasized.

0101	Gregory Hancock	Seats (Total: 30)
	W 4:15pm - 7:00pm	EDU 1121

EDMS647 Causal Inference and Evaluation Methods

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Must have completed or be concurrently enrolled in EDMS651.

Counterfactual (potential outcomes) framework for causal inference, design/analysis strategies for confounder control, and specific best-practice applications to the evaluation of programs.

0101	Laura Stapleton	Seats (Total: 30)
	Th 4:15pm - 7:00pm	EDU 3315

EDMS651 General Linear Models II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDMS646; or students who have taken courses with comparable content may contact the department.

Multiple regression and correlation analysis; trend analysis; hierarchical and stepwise procedures; logistic regression; software for regression analysis.

0101	Jeffrey Harring	Seats (Total: 30)
	M 4:15pm - 7:00pm	EDU 1107

EDMS722 Structural Modeling

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDMS657.

Statistical theory and methods of estimation used in structural modeling; computer program applications; multisample models; mean structure models; structural models with multilevel data (e.g., sampling weights, growth models, multilevel latent variable models).

0101	Gregory Hancock	Seats (Total: 30)
	Tu 4:15pm - 7:00pm	EDU 0220

EDMS724 Modern Measurement Theory

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDMS623 and EDMS651.

Theoretical formulations of measurement from a latent trait theory perspective.

0101	Ji Seung Yang	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 3233

EDMS769K Special Topics in Applied Statistics in Education; Applied Program Evaluation

Credits: 3 Grading Method: Regular,
Audit

Designed primarily for students majoring or minoring in measurement, statistics or evaluation.

Contact department for information to register for this course.

EDMS769L Special Topics in Applied Statistics in Education; Longitudinal Data Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Designed primarily for students majoring or minoring in measurement, statistics or evaluation.

Prerequisite: permission of department.

0101	Jeffrey Harring	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 3233

EDMS787 Bayesian Inference and Analysis

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDMS651. Credit only granted for: EDMS769B or EDMS787. Formerly: EDMS769B.

Models and model fitting methods commonly used in Bayesian Inference, such as Markov Chain Monte Carlo methods (e.g., Gibbs, Metropolis Sampling), with applications within and beyond the social and behavioral sciences. Analytical and philosophical differences between Frequentist and Bayesian statistics will also be highlighted.

0101	Tracy Sweet	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 2101

EDMS798 Special Problems in Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Prerequisite: permission of department.

Contact department for information to register for this course.

EDMS799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Registration required to the extent of 6 credits.

Contact department for information to register for this course.

EDMS889 Internship in Measurement and Statistics

Credits: 3-8 Grading Method: Regular,
Audit

Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDMS898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDMS899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 12 credits.

Contact department for information to register for this course.

EDPS Education Policy Studies

Spring 2016

EDPS210 Historical and Philosophical Perspectives on Education

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Credit only granted for: EDPL210 or EDPS210. Formerly: EDPL210.

An examination of illustrative historical and philosophical examples of the interplay of ideas and events in the shaping of educational aims and practices from ancient cultures to modern technological societies.

0101	Lisa Eaker Tu 10:00am - 12:45pm	Seats (Total: 30) EDU 1107
0201	Steven Stakland TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 2212
0301	Bradley Quarles TuTh 12:30pm - 1:45pm	Seats (Total: 30) EDU 2212

EDPS301 Foundations of Education

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Credit only granted for: EDPL301 or EDPS301. Formerly: EDPL301.

Social context of education and conflicts over philosophies, values, and goals that are reflected in educational institutions in our pluralistic society. Helps teachers become reflective, critical thinkers about the social and philosophical issues they face and the choices they make.

0101	Neil Dhingra MW 9:30am - 10:45am	Seats (Total: 30) EDU 1121
0201	Jason Mayernick MW 11:00am - 12:15pm	Seats (Total: 30) EDU 3233
0301	Jason Mayernick Tu 10:00am - 12:45pm	Seats (Total: 30) JMZ 0208
0401	Lisa Eaker Th 10:00am - 12:45pm	Seats (Total: 30) EDU 3233
0501	Neil Dhingra TuTh 9:30am - 10:45am	Seats (Total: 30) EDU 2119

0601	Kevin Shindel	Seats (Total: 30)
	W 4:15pm - 7:00pm	JMZ 1122

EDPS488W Special Topics in Education Policy and Administration; Disabilities in a Global Context

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

Contact department for information to register for this course.

EDPS489 Field Experiences in Education

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDPS498 Special Problems in Education

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Available only to students who have definite plans for individual study of approved problems.

Contact department for information to register for this course.

EDPS611 History of Education in the United States

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI611, EDPL611, or EDPS611. Formerly: EDPL611.

A study of the origins and development of education in the United States, emphasizing the variety of interpretive and methodological concerns that define the field.

0101	Ethan Hutt	Seats (Total: 20)
	Tu 4:15pm - 7:00pm	EDU 3236

EDPS615 Economics of Education

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: EDHI615, EDPL615, or EDPS625. Formerly: EDPL615.

An introduction to the application of economic principles to the study of education policy. The course content revolves around issues of efficiency, equity, and freedom of choice. Specific attention is devoted to school finance litigation and reform, practices for raising and allocating resources, and education productivity issues.

0101	Jennifer Rice	Seats (Total: 20)
	W 1:00pm - 3:45pm	SQH 1111

EDPS679 Master's Seminar

Credits: 3 Grading Method: Regular,
Audit

Directed study for master's degree students writing seminar papers.

Contact department for information to register for this course.

EDPS730 Seminar on Case Study Methods

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDPS690; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDHI730, EDPL730, EDPL788E, or EDPS730. Formerly: EDPL730.

Conceived as both an analysis of case study methods and a laboratory for applying course content to research topics or projects of interest to students, it addresses a range of conceptual, methodological, ethical, political, and logistical issues embedded in efforts to conduct thoughtful, "disciplined" case study research. Since this focuses on case study research, it may be particularly helpful to students who are exploring various approaches to research or who are contemplating using case study methods in their theses and/or dissertations.

0101	Betty Malen	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2102

EDPS751 Law, Equity, and Diversity in Education

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EDHI651 or EDHI671; or permission of instructor. Credit only granted for: EDHI751, EDPL751, or EDPS751. Formerly: EDPL751.

0101	Ethan Hutt	Seats (Total: 20)
	M 4:15pm - 7:00pm	EDU 2119

Credits: 3 Grading Method: Regular, Audit

0101	Gail Sunderman	Seats (Total: 24)
	W 4:15pm - 7:00pm	EDU 3236

Credits: 3 Grading Method: Regular,
Audit

0101	Wayne Slater	Seats (Total: 20)
	Th 4:15pm - 7:00pm	EDU 1315

Credits: 3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

Credits: 1-3 Grading Method: Sat-Fail

Contact department for information to register for this course.

EDPS798 Special Problems in Education

(Perm req)

Credits: 1-6

Grading Method: Regular,
Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDPS799

Master's Thesis Research

Credits: 1-6

Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

EDPS888

Apprenticeship in Education

Credits: 1-8

Grading Method: Regular,
Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Instructor: TBA	Seats (Total: 10)
Contact instructor or department for details.		

EDPS889

Internship in Education

(Perm req)

Credits: 3-8

Grading Method: Regular,
Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDPS898

Pre-Candidacy Research

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

EDPS899

Doctoral Dissertation Research

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-
Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDSP210**Introduction to Special Education**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210 or EDSP470.

Characteristics and needs of individuals receiving special education and related services. Current issues and practices in special education.

0101	Sarah Mallory	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	EDU 1107

EDSP211**Introduction to Special Education**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DVUP

Corequisite: EDHD210. Restriction: Sophomore standing or lower; and permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP210 or EDSP470.

An introduction to the field of special education. Students examine historical foundations, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals. In addition, students are introduced to the nature and characteristics of various disabilities and review current issues in the field including overrepresentation of minority students in special education, inclusion, and federal and state assessment mandates. Current topics are addressed including evidence-based practices, universal design for learning, and individualization and differentiation of instruction..

0101	Joan Lieber	Seats (Total: 20)
	W 1:00pm - 3:45pm	EDU 3236

EDSP220**Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 Grading Method: Regular General Education: DSSP,
DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

0101	Carolyn Fink	Seats (Total: 19)
	Tu 2:00pm - 3:45pm	HBK 0105
	Th 2:00pm - 3:45pm	EDU 3315 Lab
0201	Carolyn Fink	Seats (Total: 19)
	Tu 2:00pm - 3:45pm	HBK 0105
	Th 2:00pm - 3:15pm	ASY 3207 Lab

EDSP289I

Disability: From Stigma and Sideshow to Mainstream and Main Street

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB, D	General Education: DSHS, DVUP, SCIS
0101	Peter Leone	Seats (Total: 20)	
	Tu 9:30am - 10:45am	SQH 1119	
	Th 9:30am - 10:45am	EDU 3236	Discussion
0201	Peter Leone	Seats (Total: 20)	
	Tu 9:30am - 10:45am	SQH 1119	
	Th 9:30am - 10:45am	EDU 2101	Discussion
0301	Peter Leone	Seats (Total: 20)	
	Tu 9:30am - 10:45am	SQH 1119	
	Th 9:30am - 10:45am	EDU 1315	Discussion

EDSP315

Inclusive Instruction: Reading Methods II

Credits: 3 Grading Method: Regular

Prerequisite: EDHD314 and EDHD425; and (EDHD419 or EDSP420). Corequisite: EDSP423 and EDHD431; and track 1: Must be concurrently enrolled in EDSP430 and EDSP433; OR Track 2: Must be concurrently enrolled in EDHD415 and EDHD424.

Focus on current research and methods of teaching reading in the primary grades. Examination of development of a balanced literacy program of children of all reading levels in inclusive early childhood classrooms. Students will learn to select and use a variety of evidence-based reading strategies and assessment tools for reading and writing instruction. Includes field experiences.

0101	Ana Taboada Barber	Seats (Total: 35)
	Th 2:00pm - 4:00pm	HBK 0115
	Contact instructor or department for details.	

EDSP376

Fundamentals of Sign Language

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

0101	Michael Dunham	Seats (Total: 30)
	MW 6:15pm - 7:30pm	KNI 1105
0201	Michael Dunham	Seats (Total: 30)
	Th 3:45pm - 6:15pm	SQH 1107

EDSP403 Instruction of Students with Physical Disabilities

Credits: 3 Grading Method: Regular,
Audit

Also offered as: EDSP603. Credit only granted for: EDSP403 or EDSP603.

Assessment, curriculum, and instruction for students with physical disabilities. Focus on etiology, environmental and learning adaptations, and assistive technology.

0101	Frances Kohl	Seats (Total: 35)
	Tu 1:15pm - 4:00pm	EDU 3315

EDSP410 Functional Reading and Community Based Instruction

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Special Education program. Also offered as: EDSP614. Credit only granted for: EDSP410 or EDSP614.

Functional assessment, curriculum, and instruction related to academic and community functioning skills for students with severe disabilities.

0101	Sarah Mallory	Seats (Total: 35)
	M 4:15pm - 7:00pm	EDU 0220

EDSP415 Assessment in Special Education

Credits: 3 Grading Method: Regular,
Audit

Recommended: STAT100; or SOCY201. Restriction: Must be in Special Education program. Also offered as: EDSP615. Credit only granted for: EDSP415, or EDSP615.

Knowledge and skills for understanding assessment process and interpretation of assessment data. Emphasis on psychometric aspects of assessment related to screening, eligibility, and program planning.

0101	Kelli Cummings	Seats (Total: 35)
	W 1:15pm - 4:00pm	EDU 2119

EDSP416 Reading and Writing Instruction in Special Education I

Credits: 3 Grading Method: Regular, General Education: DSHU
Audit

Restriction: Must be in Special Education program. Also offered as: EDSP616. Credit only granted for: EDSP416 or EDSP616.

Assessment and instruction of reading and writing skills for students in special education.

0101	Rebecca Silverman	Seats (Total: 39)
	M 1:15pm - 4:00pm	TYD 1114

EDSP423 Assessment in Early Childhood Special Education

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Special Education program. Credit only granted for: EDSP423 or EDSP624.

Assessment procedures for infants and young children with disabilities, birth through grade 3.

0101	Joan Lieber	Seats (Total: 35)
	M 1:15pm - 4:00pm	EDU 2119

EDSP424 Field Placement in Special Education: Early Childhood II

Credits: 2-4 Grading Method: Regular,
Audit

Restriction: Must be in Special Education program.

Field experience in early childhood special education.

Students must reserve three half days (8-1) for this experience. Special education majors only.

0101	Sarah Mallory	Seats (Total: 10)
	F 9:00am - 10:30am	EDU 1107
	TuWTh 8:00am - 1:00pm	Location: TBA Lab

EDSP430 Early Intervention: Early Childhood Special Education

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in Special Education program. Credit only granted for: EDSP430 or EDSP631.

Intervention with infants and young children with disabilities. Focus on moderate and severe disabilities.

0101	Paula Beckman	Seats (Total: 15)
	W 1:00pm - 3:00pm	EDU 2102
	Contact instructor or department for details.	

EDSP433 Families and Culture in Early Intervention (Birth-5)

Credits: 3 Grading Method: Regular

Prerequisite: EDHD314 and EDHD425; and (EDHD419 or EDSP420). Corequisite: EDSP430, EDSP315, and EDHD431.

Provides students with the skills and information they need to work effectively with families of young children (birth to age 5) who have or are at risk for disabilities in early childhood or early intervention programs. Students will review current local, state and federal policies establishing the rights of families of infants and young children with disabilities to participate in decision making for their child. We will discuss relevant theoretical and research literature as well as the cultural and contextual issues involved in working with families of very young children. Includes field experiences.

0101	Paula Beckman	Seats (Total: 15)
	W 10:00am - 12:00pm	EDU 2101
	Contact instructor or department for details.	

EDSP454 Field Placement in Special Education: Elementary II

Credits: 2-4 Grading Method: Regular,
 Audit

Restriction: Must be in Special Education program.

Field experience in elementary special education.

0101	Sarah Mallory	Seats (Total: 10)
	F 9:00am - 10:30am	EDU 1107
	TuWTh 8:00am - 1:00pm	Location: TBA Lab

EDSP470 Introduction to Special Education

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

EC/ECSE majors should register for EDSP211.

0101	Philip Burke	Seats (Total: 40)
	W 4:15pm - 7:00pm	EDU 0220

EDSP476 Communicating with Sign Language

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: EDSP376. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

Intermediate level receptive/expressive skills in American Sign Language. Aspects of the culture, history, and research perspectives of the deaf community.

0101	Michael Dunham	Seats (Total: 30)
	MW 5:00pm - 6:15pm	KNI 1105
0201	Michael Dunham	Seats (Total: 30)
	MW 3:45pm - 5:00pm	KNI 1105

EDSP485 Assessment and Instruction in Mathematics in Special Education

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's)). Also offered as: EDSP683. Credit only granted for: EDSP485 or EDSP683.

Instructional methods and assessment in mathematics in special education.

0101	Susan De La Paz	Seats (Total: 35)
	Th 4:15pm - 7:00pm	EDU 1107

EDSP489 Field Experiences in Special Education

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.

0101	Instructor: TBA	Seats (Total: 20)
Contact instructor or department for details.		

EDSP490 Teacher Candidate Research Seminar in Special Education

Credits: 3 Grading Method: Regular, Audit CORE: CS

Restriction: Must be in Special Education program.

Study of current issues and research concerning the education of students in special education.

0101	Frances Kohl, Sarah Mallory	Seats (Total: 15)
Contact instructor or department for details.		
0201	Sarah Mallory, Frances Kohl	Seats (Total: 30)
Contact instructor or department for details.		

EDSP494 Internship: Early Childhood Special Education

Credits: 6-12 Grading Method: Sat-Fail

Restriction: Must be in Special Education program.

Student teaching, full-time for twelve weeks, with infants or preschool children with disabilities.

Students must pay a \$750.00 lab fee.

0101	Stacey Williams	Seats (Total: 25)
Contact instructor or department for details.		

EDSP495 Internship: Elementary Special Education

Credits: 6-12 Grading Method: Sat-Fail

Corequisite: EDSP490. Restriction: Must be in Special Education program; or must be in one of the following programs (Special Education (Doctoral); Special Education (Master's)). Also offered as: EDSP695. Credit only granted for: EDSP 495 or EDSP 695.

Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities.

Students must pay a \$750.00 lab fee.

0101	Patricia Ulf, Stacey Williams	Seats (Total: 25)
Contact instructor or department for details.		

EDSP496 Internship: Middle/Secondary Special Education

Credits: 6-12 Grading Method: Sat-Fail

Restriction: Must be in Special Education program.

Student teaching, full-time for twelve weeks, with middle or high school age students with disabilities.

Students must pay a \$750.00 lab fee.

0101	Patricia Ulf	Seats (Total: 25)
Contact instructor or department for details.		

EDSP498 Special Problems in Special Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

*Available only to education majors who have definite plans for individual study of approved problems.
Credit according to extent of work.*

Special education majors only.

Contact department for information to register for this course.

EDSP498B Special Problems in Special Education; Career Development and Advising

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail

*Available only to education majors who have definite plans for individual study of approved problems.
Credit according to extent of work.*

0101	Shannon Hayes	Seats (Total: 9)
Contact instructor or department for details.		

EDSP603 Instruction of Students with Physical Disabilities

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP403. Credit only granted for: EDSP403 or EDSP603.

Assessment, curriculum, and instruction for students with physical disabilities. Focus on etiology, environmental and learning adaptations, and assistive technology.

0101	Frances Kohl	Seats (Total: 35)
	Tu 1:15pm - 4:00pm	EDU 3315

EDSP612 Transition Methods and Disability Systems

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Permission of instructor.

Philosophical and historical foundations of transition service delivery and current methods that comprise transition services for students with disabilities.

Contact department for information to register for this course.

EDSP614 Advanced Topics in Functional Reading and Community Based Instruction

Credits: 3 Grading Method: Regular

Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP410 or EDSP614.

Functional assessment, curriculum, and instruction related to academic and community functioning skills for students with severe disabilities.

0101	Sarah Mallory	Seats (Total: 35)
	M 4:15pm - 7:00pm	EDU 0220

EDSP615 Evaluation and Measurement of Exceptional Children and Youth

Credits: 1-3 Grading Method: Regular,
 Audit

Prerequisite: EDSP600 and EDMS646; or permission of EDUC-Counseling, Higher Education and Special Education department. Also offered as: EDSP415. Credit only granted for: EDSP415 or EDSP615.

Deals with the understanding and interpretation of the results of psychological and educational tests applicable for use with exceptional children and youth.

0101	Kelli Cummings	Seats (Total: 35)
	W 1:15pm - 4:00pm	EDU 2119

Reading and Writing Instruction in Special Education I

Assessment and instruction of reading and writing skills and strategies for students in special education.

Seminar on Severely Handicapping Conditions

Contact department for information to register for this course.

Issues and Models:Secondary/Middle Special Education

Contact department for information to register for this course.

Single Subject Research Designs

Design, application, and analysis of single subject research in special education classrooms across all disabilities.

0101	Kelli Cummings	Seats (Total: 25)
	Tu 4:15pm - 7:00pm	JMZ 1120

EDSP673 Evaluating Evidence-Based Practices in Special Education

Credits: 3 Grading Method: Regular

Prerequisite: EDMS645. Recommended: EDSP670 and EDSP600. Credit only granted for: EDSP673 or EDSP798E. Formerly: EDSP798E.

Evaluating evidence-based practices in special education, by examining theoretical origins, use of causal designs, programmatic lines of research, and research syntheses to explore the development of what it means for an intervention to have the potential to significantly impact practice.

0101	Susan De La Paz	Seats (Total: 20)
	W 4:15pm - 7:00pm	EDU 1107

EDSP677 Curriculum, Assessment, and Instruction: Middle/Secondary Special Education

Credits: 3 Grading Method: Regular,
Audit

Also offered as: EDSP477. Credit only granted for: EDSP477 or EDSP677.

Methods and assessment practices for effective instruction in middle and secondary content areas for students in special education.

Contact department for information to register for this course.

EDSP683 Assessment and Instruction in Mathematics in Special Education

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Also offered as: EDSP485. Credit only granted for: EDSP485 or EDSP683.

Instructional methods and assessment in mathematics in special education.

0101	Susan De La Paz	Seats (Total: 35)
	Th 4:15pm - 7:00pm	EDU 1107

EDSP690 Teacher Candidate Research Seminar in Special Education

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program.

Required seminar for master's certification teacher candidates in special education focusing on research methods and applications with students having disabilities.

0101	Sarah Mallory, Frances Kohl	Seats (Total: 15)
	Contact instructor or department for details.	
	<i>Section 0101 is for Master's Certification Program students.</i>	
0201	Sarah Mallory, Frances Kohl	Seats (Total: 30)
	Contact instructor or department for details.	

EDSP694 Graduate Internship in Special Education II: Early Childhood

Credits: 6-11 Grading Method: Regular,
Audit

Corequisite: EDSP690. Restriction: Must be in Special Education program; or must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP494, EDSP694, or EDSP889A.

Student teaching, full-time for twelve weeks, with infants or preschool children with disabilities.

Students must pay a \$750.00 lab fee.

0101	Stacey Williams	Seats (Total: 25)
	Contact instructor or department for details.	

EDSP695 Graduate Internship in Special Education II: Elementary

Credits: 6-11 Grading Method: Regular,
Audit

Corequisite: EDSP690. Recommended: Must be in Special Education (Master's) program EDSPM Special Education. Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP495, EDSP695 or EDSP888A.

Student teaching, full-time for 15 weeks, with elementary or middle school students with disabilities.

Students must pay a \$750.00 lab fee.

0101	Patricia Ulf, Stacey Williams	Seats (Total: 25)
	Contact instructor or department for details.	

EDSP696 Graduate Internship in Special Education II: Secondary Middle

Credits: 6-11 Grading Method: Regular,
Audit

Corequisite: EDSP690. Restriction: Must be in Special Education program; or must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program. Credit only granted for: EDSP496, EDSP696, or EDSP889A.

Student teaching, full-time for twelve weeks, with students with disabilities in secondary or middle school settings.

Students must pay a \$750.00 lab fee.

0101	Patricia Ulf	Seats (Total: 25)
Contact instructor or department for details.		

EDSP798 Special Problems in Special Education

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Special education majors only.

Contact department for information to register for this course.

EDSP799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Registration required to the extent of six hours for Master's thesis.

Special education majors only.

Contact department for information to register for this course.

EDSP888 Apprenticeship in Special Education

(Perm req)

Credits: 1-8 Grading Method: Regular,
Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A Apprenticeship in Special Education; Apprenticeship in College Teaching

Credits: 3 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP889 Internship in Special Education

(Perm req)

Credits: 3-8 Grading Method: Regular,
Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Special education majors only.

Contact department for information to register for this course.

EDSP898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDSP899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Special education majors only.

Contact department for information to register for this course.

EDUC Education Spring 2016

EDUC388 Special Topics in Education; Guided Experiences in College Teaching

(Perm req)

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Restricted to students approved as undergraduate teaching assistants. Section 0101 is reserved for standard UTA program and should be taken concurrently with EDUC498, 0101 for one credit.

0201	Sharon Vanwright	Seats (Total: 20)
	Contact instructor or department for details.	
	Contact instructor or department for details.	
	<i>Relates to Academic Achievement Program- should be taken concurrently w th EDCI 498, Section 6601.</i>	

EDUC388T**Special Topics in Education; Guided Experiences in College Teaching - UTA**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

0101	Thomas Eacho	Seats (Total: 30)
	Tu 5:00pm - 7:00pm	TWS 0205
	Contact instructor or department for details.	

EDUC498**Selected Topics in Education**

(Perm req)

Credits: 1 Grading Method: Regular

Current topics and issues in education.

0101	Thomas Eacho	Seats (Total: 60)
	Contact instructor or department for details.	

EDUC499H**Honors Thesis**

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail

Individual thesis work under supervision of faculty advisors; includes periodic seminar meetings with other honors students engaged in thesis work.

Course restricted to students admitted to College of Education honors program.

0101	Christy Tirrell-Corbin	Seats (Total: 14)
	Contact instructor or department for details.	

EDUC888**Applied Apprenticeship in Education**

Credits: 1-3 Grading Method: Regular,
Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

PGCPS II EdD Outreach Program. Registration restricted to program participants.

IH42	Patricia Richardson	Seats (Total: 16)
	Contact instructor or department for details.	
	<i>PGCPS II EdD Outreach Program. Registration restricted to program participants.</i>	

IH81	Margaret McLaughlin	Seats (Total: 10)
	Contact instructor or department for details.	
	<i>AA/SMC EdD Program. Registration restricted to program participants. Restriction: Department permission required.</i>	
IH82	Patricia Richardson	Seats (Total: 4)
	Contact instructor or department for details.	
	<i>AA/SMC EdD Program. Registration restricted to program participants. Restriction: Department permission required.</i>	
IH84	David Imig	Seats (Total: 4)
	Contact instructor or department for details.	
	<i>AA/SMC EdD Program. Registration restricted to program participants. Restriction: Department permission required.</i>	

EDUC888D Applied Apprenticeship in Education; Educational Politics

Credits: 1 Grading Method: Regular,
Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.

Contact department for information to register for this course.

EDUC898 Pre-Candidacy Research

Credits: 2-4 Grading Method: Regular

Pre-Candidacy Research

IH41	John Norris, Margaret McLaughlin	Seats (Total: 10)
	Contact instructor or department for details.	
	<i>AA/SMC EdD Outreach Program. Registration restricted to program participants. Restriction: Department permission required.</i>	
IH43	Thomas Davis	Seats (Total: 3)
	Contact instructor or department for details.	
	<i>PG EdD Outreach Program. Registration restricted to program participants. Restriction: Department permission required.</i>	

IH44	David Imig	Seats (Total: 3)
	Contact instructor or department for details.	
	<i>PG EdD Outreach Program. Registration restricted to program participants. Restriction: Department permission required.</i>	
IH45	Stephanie Brown	Seats (Total: 3)
	Contact instructor or department for details.	
	<i>PG EdD Outreach Program. Registration restricted to program participants. Restriction: Department permission required.</i>	

EDUC899

Dissertation of Practice Research

(Perm req)

Credits: 6

Grading Method: Regular,
Audit

Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.

Contact department for information to register for this course.

ENAE Engineering, Aerospace

Spring 2016

ENAE200

Aerospace Engineering Profession II

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Recommended: ENAE100. Restriction: Must be in Engineering: Aerospace program; and permission of ENGR-Aerospace Engineering department.

Overview of the engineering profession as it pertains to the role of the engineer in society, professional practice and ethical standards, career development, opportunities and need for lifelong learning, importance of safety and standards, effective written, visual, and oral communications, and the impact of the engineering profession on global issues.

0101	Kevin Lewy, Norman Wereley	Seats (Total: 20)
	Tu 2:00pm - 3:15pm	EGR 1202
	Tu 11:00am - 11:50am	KEB 2107 Lab
0102	Kevin Lewy, Norman Wereley	Seats (Total: 30)
	Tu 2:00pm - 3:15pm	EGR 1202
	W 11:00am - 11:50am	KEB 2111 Lab
0103	Norman Wereley, Kevin Lewy	Seats (Total: 20)
	Tu 2:00pm - 3:15pm	EGR 1202
	Th 11:00am - 11:50am	KEB 2107 Lab

ENAE202**Aerospace Computing**

Credits: 3 Grading Method: Regular

Corequisite: MATH140. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.

0101	Robert Sanner	Seats (Total: 26)
	MW 1:00pm - 1:50pm	EGR 1202
	Th 3:00pm - 5:00pm	KEB 2107 Lab
0102	Robert Sanner	Seats (Total: 26)
	MW 1:00pm - 1:50pm	EGR 1202
	F 3:00pm - 5:00pm	EGR 0312 Lab
0103	Robert Sanner	Seats (Total: 26)
	MW 1:00pm - 1:50pm	EGR 1202
	Th 1:00pm - 3:00pm	KEB 2107 Lab
0104	Robert Sanner	Seats (Total: 26)
	MW 1:00pm - 1:50pm	EGR 1202
	F 1:00pm - 3:00pm	EGR 0312 Lab

ENAE324**Aerospace Structures**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220. Restriction: Must be in Engineering: Aerospace program.

Analysis of torsion, beam bending, plate bending, buckling and their application to aerospace.

0101	Andrew Becnel, Mary Bowden	Seats (Total: 100)
	MW 11:00am - 11:50am	KEB 1110
	F 11:00am - 12:50pm	KEB 1110 Discussion
0201	Andrew Becnel	Seats (Total: 18)
	MW 10:00am - 10:50am	EGR 3111
	F 10:00am - 12:50pm	EGR 3106 Discussion

ENAE398H**Honors Research Project**

(Perm req)

Credits: 1-3

Grading Method: Regular

Planned sequence of steps in aerospace honors research in which student take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.

Contact department for information to register for this course.

ENAE404**Space Flight Dynamics**

Credits: 3

Grading Method: Regular

Prerequisite: ENAE301. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Three-dimensional motion under central fields. Solutions to orbital motion, orbital elements, time elements. Kepler's laws. Orbital maneuvering, rendezvous and station-keeping. Rigid-body attitude dynamics, spacecraft attitude dynamics.

0101	Christine Hartzell	Seats (Total: 60)
	TuTh 9:30am - 10:45am	KEB 1200

ENAE414**Aerodynamics II**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And junior standing or higher.

Aerodynamics of inviscid incompressible flows. Aerodynamic forces and moments. Fluid statics/buoyancy force. Vorticity, circulation, the stream function and the velocity potential. Bernoulli's and Laplace's equations. Flows in low speed wind tunnels and airspeed measurement. Potential flows involving sources and sinks, doublets, and vortices. Development of the theory of airfoils and wings.

0101	Anya Jones	Seats (Total: 70)
	TuTh 9:30am - 10:45am	EGR 1108

ENAE415**Helicopter Theory**

Credits: 3

Grading Method: Regular

Prerequisite: ENAE414. Restriction: Must be in Engineering: Aerospace program.

Elementary exposition on the theory and practice of aerodynamics applie to helicopters and other rotary wing aircraft.

0101	Ananth Sridharan	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	EGR 3111

ENAE420 Computational Structural Mechanics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220 and MATH241; and must have completed a course in linear algebra.

Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Introductory of finite element methods for aerospace engineering modeling and analysis; equips students with ability to understand manuals of commercial finite element analysis software.

0101	Sung Lee	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	EGR 1102

ENAE425 Mechanics of Composite Structures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, ENAE324, ENES220, and MATH241.

Introduction to structures composed of composite materials and their applications in aerospace. In particular, filamentary composite materials are studied. Material types and fabrication techniques, material properties, micromechanics, anisotropic elasticity, introduction to failure concepts.

0101	Andrew Becnel, Olivier Bauchau	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMP 2121

ENAE432 Control of Aerospace Systems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENAE301 and ENAE283. Restriction: Junior standing or higher; and must be in Engineering: Aerospace program.

An introduction to the feedback control of dynamic systems. Laplace transforms and transfer function techniques; frequency response and Bode diagrams. Stability analysis via root locus and Nyquist techniques. Performance specifications in time and frequency domains, and design of compensation strategies to meet performance goals.

0101	Robert Sanner	Seats (Total: 115)
	MWF 9:00am - 9:50am	CHE 2110

ENAE464

Aerospace Engineering Laboratory

Credits: 3

Grading Method: Regular

Prerequisite: ENAE324, ENAE362, ENAE311, and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.

Application of fundamental measuring techniques to measurements in aerospace engineering. Includes experiments in aerodynamics, structures, propulsion, flight dynamics and astrodynamics. Correlation of theory with experimental results.

0101	Allen Winkelmann	Seats (Total: 14)
	MW 8:00am - 8:50am	JMP 3201
	M 2:00pm - 5:00pm	EGL 0121 Lab
0102	Allen Winkelmann	Seats (Total: 14)
	MW 8:00am - 8:50am	JMP 3201
	Tu 2:00pm - 5:00pm	EGL 0121 Lab
0103	Allen Winkelmann	Seats (Total: 14)
	MW 8:00am - 8:50am	JMP 3201
	W 2:00pm - 5:00pm	EGL 0121 Lab
0104	Allen Winkelmann	Seats (Total: 14)
	MW 8:00am - 8:50am	JMP 3201
	Th 2:00pm - 5:00pm	EGL 0121 Lab
0105	Allen Winkelmann	Seats (Total: 14)
	MW 8:00am - 8:50am	JMP 3201
	Tu 8:00am - 11:00am	EGL 0121 Lab
0201	Andrew Becnel	Seats (Total: 20)
	MW 11:00am - 11:50am	EGR 3106
	Th 2:00pm - 5:00pm	EGR 1110 Lab

0202	Andrew Becnel	Seats (Total: 20)	
	MW 11:00am - 11:50am	EGR 3106	
	F 2:00pm - 5:00pm	EGR 1110	Lab

ENAE471 Aircraft Flight Testing

Credits: 3 Grading Method: Regular

Prerequisite: ENAE414. Corequisite: ENAE403. Restriction: Must be in Engineering: Aerospace program.

Provides basic instruction to aircraft flight testing and demonstrates need for systematic, well-proven technique to allow for accurate airplane performance. Concepts of aerodynamics, airplane performance, and stability and control. Emphasis on single-engine general aviation type aircraft.

0101	Andrew Lind	Seats (Total: 20)
	MW 2:00pm - 3:15pm	EGR 1102

ENAE482 Aeronautical Systems Design

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: ENAE455, ENAE423, ENAE403, and ENAE481. Restriction: Must be in Engineering: Aerospace program; and senior standing or higher.

Senior capstone design course in the aeronautics track. Introduction of computerized methods for sizing and performance analysis. More comprehensive methods to predict weight, aerodynamics and propulsion system characteristics. Consideration in design disciplines such as vulnerability, maintainability, produceability, etc. Groups of students will complete, brief and report on a major design study to specific requirements.

0101	Dominic Palumbo	Seats (Total: 55)
	MWF 1:00pm - 1:50pm	CHE 2108
0201	Sung Lee	Seats (Total: 13)
	MW 5:00pm - 6:15pm	EGR 0108
	<i>This section is restricted to students on the Design, Build, Fly team and requires permission from the department to enroll.</i>	
0301	James Baeder	Seats (Total: 10)
	MW 3:30pm - 4:45pm	CHE 2145

ENAE484 Space Systems Design

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: ENAE423, ENAE483, ENAE441, and ENAE457. Restriction: Must be in Engineering: Aerospace program.

Senior capstone design course in the space track. Group preliminary design of a space system, including system and subsystem design, configuration control, costing, risk analysis, and programmatic development. Course also emphasizes written and oral engineering communications.

0101	David Akin, Andrew Becnel, Mary Bowden	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	ITV 1111
0201	Christopher Cadou	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	JMZ 1123
<i>This section is restricted to students on the Cadou Rocket Team and requires permission from the department to enroll.</i>		

ENAE488C Topics in Aerospace Engineering; Computational Fluid Dynamics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Technical elective taken with the permission of the student's advisor and instructor. Lecture and conference courses designed to extend the student's understanding of aerospace engineering. Current topics are emphasized.

Prerequisite: ENAE 311; ENAE 202; MATH 240, 246; Computer programming experience either in MATLAB, FORTRAN, C++, or Python Restriction: Must be in Engineering: Aerospace program. An introduction to Computational Fluid Dynamics (CFD), with an emphasis on the application of CFD to predict fluid flow behavior for basic and moderately complex geometries. Introduces students to the entire process of CFD from grid generation, application of CFD solvers, and post-processing using state-of-the-art commercial software. Finite difference and finite volume methods, explicit and implicit schemes, solutions of elliptic, parabolic, and hyperbolic equations. Additionally, students will be provided with a fundamental understanding that will enable them to choose the right CFD tools, evaluate, and CFD results.

0101	Ashish Nedungadi	Seats (Total: 15)
	TuTh 5:00pm - 6:15pm	EGR 1110

ENAE488F Topics in Aerospace Engineering; Introduction to Aviation for Pilot Training

Credits: 3 Grading Method: Regular

Technical elective taken with the permission of the student's advisor and instructor. Lecture and conference courses designed to extend the student's understanding of aerospace engineering. Current topics are emphasized.

Prerequisite: ENAE283 or permission of department. Restriction: Must be in Engineering: Aerospace program. Introduction to how pilots view the design of an aerospace vehicle. Topics include aerodynamic principles, pilot training, flight instruments, flight maneuvers, aeronautical charts and communication, aviation weather, & airplane performance and navigation.

0101	Nizar Bechara	Seats (Total: 30)
	Tu 4:00pm - 6:40pm	JMP 3201

ENAE488R Topics in Aerospace Engineering; Planetary Rover Development

Credits: 3 Grading Method: Regular

Technical elective taken with the permission of the student's advisor and instructor. Lecture and conference courses designed to extend the student's understanding of aerospace engineering. Current topics are emphasized.

Restriction: Must be in Engineering: Aerospace program

0101	David Akin	Seats (Total: 25)
	MW 5:00pm - 7:00pm	Location: TBA

ENAE499 Elective Research

(Perm req)

Credits: 3 Grading Method: Regular

Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.

Contact department for information to register for this course.

ENAE633 Helicopter Dynamics

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENAE631. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

Flap dynamics. Mathematical methods to solve rotor dynamics problems. Flap-lag-torsion dynamics and identify structural and inertial coupling terms. Overview on rotary wing unsteady aerodynamics. Basic theory of blade aeroelastic stability and ground and air resonance stability, vibration analyses and suppression.

0101	Anubhav Datta	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 2222

SM01	Anubhav Datta TuTh 9:30am - 10:45am	Seats (Total: 5) Location: TBA
TV01	Anubhav Datta Class time/details on ELMs	Seats (Total: 5) ONLINE

ENAE634

Helicopter Design

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ENAE631. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.

Principles and practice of the preliminary design of helicopters and similar rotary wing aircrafts. Design trend studies, configuration selection and sizing methods, performance and handling qualities analyses, structural concepts, vibration reduction and noise. Required independent design project conforming to a standard helicopter request for proposal (RFP).

0101	Vengalattore Nagaraj, Inderjit Chopra F 1:00pm - 4:30pm	Seats (Total: 20) JMP 2217
DE01	Inderjit Chopra Class time/details on ELMs	Seats (Total: 15) ONLINE
HT01	Inderjit Chopra F 1:00pm - 4:30pm	Seats (Total: 5) Location: TBA
SG01	Inderjit Chopra F 1:00pm - 4:30pm	Seats (Total: 5) Location: TBA
SM01	Inderjit Chopra F 1:00pm - 4:30pm	Seats (Total: 5) Location: TBA
TV01	Inderjit Chopra F 1:00pm - 4:30pm	Seats (Total: 5) Location: TBA

ENAE635

Helicopter Stability and Control

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ENAE631. Restriction: Permission of ENGR-Aerospace Engineering department.

Advanced dynamics as required to model rotorcraft for flight dynamic studies. Development of helicopter simulation models and specifications of handling qualities. Methods for calculation of trim, poles, frequency response, and free flight response to pilot inputs.

0101	Roberto Celi	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	EGR 3102

ENAE642 Atmospheric Flight Control

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE403 and ENAE432; or students who have taken courses with comparable content may contact the department.

Exposure to flight guidance and control. Draws heavily from vehicle dynamics as well as feedback theory, and careful treatment of the non-linear aspects of the problem is critical. Conventional synthesis techniques are stressed, although modern methods are not ignored. Multivariable system analysis is included, along with flight-control design objectives and hardware limitations. Emphasis on aircraft and missiles.

0101	Imraan Faruque	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	JMP 2222
HT01	Imraan Faruque	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	Location: TBA
SG01	Imraan Faruque	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	Location: TBA
SM01	Imraan Faruque	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	Location: TBA
TV01	Imraan Faruque	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	Location: TBA

ENAE652 Computational Structural Mechanics

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and permission of ENGR-Aerospace Engineering department. Credit only granted for: ENME 674, ENAE652, ENPM652 or ENPM808F.

Fundamentals of structural mechanics and computational modeling. Finite element modeling of two- and three-dimensional solids, plates and shells. Geometrically nonlinear behavior. Structural stability such as buckling and postbuckling.

0101	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 10) JMP 2222
HT01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 5) Location: TBA
SG01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 5) Location: TBA
SM01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 5) Location: TBA
TV01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 10) Location: TBA

ENAE654

Mechanics of Composite Structures

Credits: 3

Grading Method: Regular

An introduction to structures composed of composite materials and their applications in aerospace. In particular, filamentary composite materials are studied. Material types and fabrication techniques, material properties, micromechanics, anisotropic elasticity, introduction to failure concepts.

0101	Andrew Becnel, Olivier Bauchau MWF 10:00am - 10:50am	Seats (Total: 25) JMP 2121
HT01	Olivier Bauchau MWF 10:00am - 10:50am	Seats (Total: 5) Location: TBA
SG01	Olivier Bauchau MWF 10:00am - 10:50am	Seats (Total: 5) Location: TBA
SM01	Olivier Bauchau MWF 10:00am - 10:50am	Seats (Total: 5) Location: TBA
TV01	Olivier Bauchau MWF 10:00am - 10:50am	Seats (Total: 5) Location: TBA

Introduction to Plasmas for Space Propulsion and Power

Credits: 3 Grading Method: Regular, Audit

Characteristics of plasmas, motion of charged particles in fields, collisional processes, kinetic theory, fluid description of plasmas, transport properties, equilibrium vs. non-equilibrium, generation of plasmas.

0101	Raymond Sedwick	Seats (Total: 15)
	W 4:00pm - 6:30pm	EGR 1110

Aerodynamics of Compressible Fluids

Credits: 3 Grading Method: Regular,
Audit

One-dimensional flow of a perfect compressible fluid. Shock waves. Two-dimensional linearized theory of compressible flow. Two-dimensional transonic and hypersonic flows. Exact solutions of two-dimensional isotropic flow. Linearized theory of three-dimensional potential flow. Exact solution of axially symmetrical potential flow. One-dimensional flow with friction and heat addition.

0101	Christopher Cadou	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	EGR 3102

Turbulence

Credits: 3 Grading Method: Regular,
Audit

Physical and statistical descriptions of turbulence; review of phenomenological theories for turbulent flows; scales of motion; correlations and spectra; homogeneous turbulent flows; inhomogeneous shear flows; turbulent flows in pipes and channels; turbulent boundary layers; theory of methods for turbulent flows (Reynolds stress equations, LES, DES, DNS); experimental methods for turbulence measurements.

0101	Pino Martin	Seats (Total: 10)
	TuTh 9:30am - 10:45am	EGR 0135

Computational Fluid Dynamics II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE684. Restriction: Permission of ENGR-Aerospace Engineering department.

Continuation of ENAE 684. Basic algorithms for the numerical solution of two and three dimensional inviscid and viscous flows. Applications to internal and external flow problems.

0101	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 20) JMP 2222
HT01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	James Baeder TuTh 11:00am - 12:15pm	Seats (Total: 5) Location: TBA

ENAE741

Interplanetary Navigation and Guidance

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE601 and ENAE432.

Interplanetary trajectory construction; patched and multiconic techniques. Methods of orbit and attitude determination; applied Kalman filtering. Guidance algorithms and B-plane targeting. Interplanetary navigation utilizing in situ and radio techniques.

0101	Brent Barbee TuTh 5:00pm - 6:15pm	Seats (Total: 20) EGR 2154
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ENAE743

Applied Nonlinear Control of Aerospace Vehicles

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE641.

Modern methods of analysis and synthesis of multivariable nonlinear control techniques for aircraft, spacecraft, and space manipulator systems. Topics include passivity and Lyapunov theory, feedback linearization, nonlinear observers, Hamiltonian methods, robust controller design, and an introduction to adaptive nonlinear control methods.

0101	Derek Paley	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	CHE 2116

ENAE757 Advanced Structural Dynamics

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE655; or students who have taken courses with comparable content may contact the department.

Demonstrate the practical application of Smart Materials and Spatially Distributed Transducers to the design and control of advanced structures. The course will be focused toward the active control of continuum structures using advance Spatially Distributed Parameter System control techniques and concepts. Effective system parameterizations will be used to reduce distributed parameter system models to classical canonical state space form for the purpose of robust adaptive structure design. Application case studies, including morphing structures will be employed as necessary to enhance the students intuition and understanding of Distributed Parameter Systems.

0101	Olivier Bauchau	Seats (Total: 15)
	MW 2:00pm - 3:15pm	EGR 0135

ENAE788B Selected Topics in Aerospace Engineering; Aircraft Systems Identification

Credits: 1-3 Grading Method: Regular,
Audit

0101	Instructor: TBA	Seats (Total: 1)
	W 1:00pm - 3:40pm	Location: TBA

ENAE788F Selected Topics in Aerospace Engineering; Introduction to Aviation for Pilot Training

Credits: 1-3 Grading Method: Regular,
Audit

0101	Nizar Bechara	Seats (Total: 30)
	Tu 4:00pm - 6:40pm	JMP 3201
HT01	Nizar Bechara	Seats (Total: 5)
	Contact instructor or department for details.	

SG01	Nizar Bechara	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	Nizar Bechara	Seats (Total: 5)
	Contact instructor or department for details.	
TV01	Nizar Bechara	Seats (Total: 5)
	Contact instructor or department for details.	

ENAE788J

Selected Topics in Aerospace Engineering; Fundamentals of Explosions 2: Achieving Control

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE788A or permission of instructor. Explosions involve energy release and the creation and propagation of shock waves. They may occur naturally, as in the case of astrophysical explosions or volcanoes, and they are often unwanted, as in large-scale accidental explosions. Here we focus on a third category: explosions we create on purpose and how we try to control and use the energy output. The course material will consist of a review of the fundamentals principles of initiation and propagation of explosions, as covered in ENAE788A, and involve a series of guest experts speaking on topics such as ramjets, scramjets, rocket launch, shaped charges, and nuclear energy generation.

0101	Elaine Oran	Seats (Total: 10)
	MW 2:00pm - 3:15pm	SPH 0302

ENAE788L

Selected Topics in Aerospace Engineering; Probability Concepts in Dynamic Systems

Credits: 3 Grading Method: Regular,
Audit

0101	Liam Healy	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	EGR 3102

ENAE788W

Selected Topics in Aerospace Engineering; Smart Fluids and Applications

Credits: 3 Grading Method: Regular,
Audit

0101	Norman Wereley	Seats (Total: 10)
	MW 11:00am - 12:15pm	EGR 3111

ENAE788Z

Selected Topics in Aerospace Engineering; TITAN Aerial Explorer

Credits: 1-3 Grading Method: Regular,
Audit

HT01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SG01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
SM01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 5) Location: TBA
TV01	James Hubbard MW 11:00am - 12:15pm	Seats (Total: 20) JMP 2222

ENAE791

Launch and Entry Vehicle Design

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENAE601.

Design of aerospace vehicles for atmospheric transit to and from space. Generic formulation of atmospheric flight dynamics. Ballistic and lifting entry trajectories. Estimation of vehicle aerodynamic properties and aerothermodynamic heating. Entry thermal protection design. Trajectory analysis of sounding rockets and orbital launch vehicles. Serial, parallel, and hybrid multistaging schemes, optimal multistaging. Constrained trajectory optimization. Launch vehicle economic and reliability analysis, flight termination systems, sensors and actuators.

0101	David Akin TuTh 3:30pm - 4:45pm	Seats (Total: 20) JMP 2121
HT01	David Akin TuTh 3:30pm - 4:45pm	Seats (Total: 5) Location: TBA
SG01	David Akin TuTh 3:30pm - 4:45pm	Seats (Total: 5) Location: TBA
SM01	David Akin TuTh 3:30pm - 4:45pm	Seats (Total: 5) Location: TBA
TV01	David Akin TuTh 3:30pm - 4:45pm	Seats (Total: 5) Location: TBA

ENAE799

Master's Thesis Research

Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

ENAE898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

ENAE899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular
Contact department for information to register for this course.

ENCE Engineering, Civil Spring 2016

ENCE100 Introduction to Civil and Environmental Engineering

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

An overview of the department of Civil and Environment Engineering. Students are introduced to the undergraduate curriculum and will be exposed to other undergraduate and graduate students at various points in their program. The course blends panel presentations by seniors and graduate students, faculty and practitioners with a project and book review to be performed by the students.

0101	Kaye Brubaker	Seats (Total: 100)
	F 1:00pm - 1:50pm	EGR 1202

ENCE200 Civil Engineering Computation

(Perm req) Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES100, MATH141, and ENES102; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE200 or ENCE202. Formerly: ENCE202.

Development of knowledge and skills in managing, analyzing, interpreting, and communicating spatial information. Computer Aided Drawing (CAD) and Geographic Information Systems (GIS) are introduced in the context of civil and environmental engineering applications.

0101	Frank White, Kaye Brubaker	Seats (Total: 37)
	MW 2:00pm - 3:15pm	EGR 1156
0201	Frank White, Kaye Brubaker	Seats (Total: 37)
	MW 3:30pm - 4:45pm	EGR 1156

ENCE201**Engineering Information Processing**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.

Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).

0101	Peter Chang	Seats (Total: 75)
	MWF 2:00pm - 2:50pm	KEB 1110

ENCE215**Engineering for Sustainability**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM135; and permission of ENGR-Civil & Environmental Engineering department.

Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.

0101	Natasha Andrade	Seats (Total: 35)
	TuTh 9:30am - 10:45am	JMP 1109
0201	Natasha Andrade	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	EGR 1104

ENCE300**Fundamentals of Engineering Materials**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Behavior, physical, mechanical and chemical properties, design and performance of civil engineering materials, including aggregates, cement, concrete, asphalt binders and mixtures, plastics and geosynthetics, timber, metals and alloys. Modified and advanced highway materials (polymer and rubber modified mixtures, high performance concrete, composites, smart materials). Laboratory testing with hands-on experience on aggregates, Portland cement concrete, asphalt mixtures, timber and metals as per SUPERAVE, ACI design methods, and ASTM standards and specifications.

0101	Dimitrios Goulas	Seats (Total: 18)
	Tu 12:30pm - 2:30pm	JMZ 0105
	Th 10:30am - 12:30pm	EGL 0110E Lab
0102	Dimitrios Goulas	Seats (Total: 18)
	Tu 12:30pm - 2:30pm	JMZ 0105
	Th 12:30pm - 2:30pm	EGL 0110E Lab
0103	Dimitrios Goulas	Seats (Total: 18)
	Tu 12:30pm - 2:30pm	JMZ 0105
	Th 2:30pm - 4:30pm	EGL 0110E Lab
0104	Dimitrios Goulas	Seats (Total: 18)
	Tu 12:30pm - 2:30pm	JMZ 0105
	Th 4:30pm - 6:30pm	EGL 0110E Lab

ENCE302

Probability and Statistics for Civil and Environmental Engineers

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: MATH246 and ENCE201; and permission of ENGR-Civil & Environmental Engineering department.

Statistics is the science of data. Civil Engineers must often make decisions based on incomplete, variable or uncertain information. In addition, modern methods of design and analysis need to account for variability in natural, engineered and human systems. After successful completion of this class, a student should have facility and familiarity with established basic techniques for managing data, modeling variability and uncertainty, communicating about data and decisions, and supporting or defending a decision or judgment based on uncertain or incomplete data.

0101	David Lovell	Seats (Total: 65)
	MWF 2:00pm - 2:50pm	EGR 1202

ENCE305

Fundamentals of Engineering Fluids

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE305 or ENCE330. Formerly: ENCE330.

The theoretical bases for fluid statics and dynamics, including the conservation of mass, energy and momentum. Modeling of hydraulic systems are introduced. Emphasis on pipe flow and open-channel hydraulics, with real-world applications.

0201	Barton Forman	Seats (Total: 45)
	MWF 8:00am - 8:50am	EGR 3106
0301	Richard McCuen	Seats (Total: 40)
	MWF 10:00am - 10:50am	EGR 1104

ENCE310 Introduction to Environmental Engineering

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS260 and ENCE215; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to the physical, chemical and biological systems relating to the quality of water, land and air environments. Fundamental principles will be emphasized, current environmental pollution problems will be examined and methods of pollution abatement discussed.

0101	Ana Prieto	Seats (Total: 60)
	TuTh 8:00am - 9:15am	EGR 1108

ENCE320 Introduction to Project Management

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering or in the Project Management Minor.

Learn the fundamentals of project management and the analytical skills for the management side of engineering projects. Topics include economic analysis, project screening and selection, organizational and project structure, scheduling, budgeting, resource management, life cycle costing, and project control.

0101	Emily Stoll	Seats (Total: 100)
	M 5:00pm - 7:30pm	CHE 2110
	Click here for syllabus.	

ENCE325**Introduction to Construction Project Management**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in a major in ARCH-School of Architecture, Planning, & Preservation; or must be in the Construction Project Management minor. And permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: ENCE 320 or ENCE 325.

Learn the basic topics in sourcing, planning, financing, designing, contracting, constructing and operating buildings and other facilities in the built infrastructure. Topics include construction economics, design constructability reviews, construction process planning, contracts and procurement strategies, project scheduling and resource utilization, site layout planning, project cost and quality controls, temporary structures, environmental sustainability, project handover procedures, facility operation and management, IT-based tools for construction project and resource management.

0101	Mirosław Skibniewski	Seats (Total: 50)
	Th 5:00pm - 7:30pm	EGR 1108

ENCE340**Fundamentals of Geotechnical Engineering**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.

Introductory study of soils in civil engineering. Soil origin, phase relationships and classification schemes. Soil hydraulics: capillary, effective stress, permeability and seepage considerations. Basic stress distribution theories and soil consolidation-settlement analysis. Integration of shear strength evaluation with slope stability analysis. If time permits, topics such as applications in geoenvironmental engineering will be covered.

0101	Aslı Yalcin Dayioglu, Ahmet Aydilek	Seats (Total: 55)
	TuTh 11:00am - 12:15pm	CSI 3117

ENCE353**Introduction to Structural Analysis**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department; and (MATH246 and ENES220).

The basic tools of structural analysis and design. Design loads. Equilibrium of external and internal forces. Shear and moment diagrams in beams and frames. Truss analysis. Influence line diagrams. The slope-deflection method and method of consistent deformation. Matrix stiffness methods for beams, frames and trusses.

0101	Bilal Ayyub	Seats (Total: 62)
	MWF 9:00am - 9:50am	PLS 1130

ENCE360 Analysis of Civil Engineering Systems

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.

Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.

0301	Ali Haghani	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
	<i>Weekly video conferences Tuesdays 9:30am-10:30am or 11am-12pm.</i>	

ENCE370 Introduction to Transportation Engineering and Planning

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS261, ENCE201, and PHYS260; and permission of ENGR-Civil & Environmental Engineering department.

Engineering problems of transportation by highways, airways, pipelines, waterways, and railways. Transportation modes and technologies, vehicle dynamics, basic facility design, traffic stream models, capacity analysis, transportation planning, evaluation and choice, and network analysis.

0101	Cinzia Cirillo	Seats (Total: 48)
	MWF 1:00pm - 1:50pm	BPS 0283

ENCE402 Simulation and Design of Experiments for Engineers

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE302; and permission of ENGR-Civil & Environmental Engineering department.

Review of statistics and hypothesis testing, sample design and design o experiments, generation of discrete and continuous distributions and their applications. Introduction of simulation languages and simulation of discrete and continuous engineering systems. Output analysis, model validation and sensitivity and reliability analysis.

0101	Steven Gabriel	Seats (Total: 49)
	TuTh 11:00am - 12:15pm	KEB 1200

ENCE411 Environmental Engineering Science

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE310; and permission of ENGR-Civil & Environmental Engineering department.

Introduces the analytical techniques available to assess performance of engineering processes as they relate to water, soil, and air treatment and quality. The basic principles of environmental management, economics of waste treatment, by-product reutilization, and energy cycles are introduced and discussed. Alternative technologies are introduced and evaluated mostly by assessing their potential to reduce waste, minimize energy use, and promote sustainability. Students' activities include, a weekly lab to provide hands-on experience with environmental quality measurements and treatment techniques; on-site visits to regional industries that undertake sustainable practices; and a final research project where experimental design and laboratory techniques are used to assess interactions between technologies and natural systems and their potential for reducing environmental impacts.

0101	Natasha Andrade	Seats (Total: 9)
	TuTh 11:00am - 11:50am	JMP 1109
	W 10:00am - 1:00pm	Location: TBA Lab
0102	Natasha Andrade	Seats (Total: 9)
	TuTh 11:00am - 11:50am	JMP 1109
	W 2:00pm - 5:00pm	Location: TBA Lab

ENCE412 Environmental Engineering Unit Operations

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE305 and ENCE310; and permission of ENGR-Civil & Environmental Engineering department.

Examination of unit operations and processes encountered in environmental engineering field. Fundamental principles learned from previous classes will be applied into the design and operation of unit operations and processes, particularly in the area of water and wastewater treatment. Similar processes will be applied to air pollution control, solid waste disposal and hazardous waste treatment.

0101	Allen Davis	Seats (Total: 43)
	TuTh 2:00pm - 3:15pm	EGR 3106

ENCE421 Legal Aspects of Architectural and Engineering Practice

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor; or must be in the Project Management Minor.

Learn the basic structure of the US legal system and court procedures and legal principles relevant to architectural and engineering design and construction contracts including principles of ethical, legal and professional conduct of engineers and architects. Topics include: contracts for design and construction, sales and warranties, torts and product liability, business agency and government agencies, professional liability of architects and engineers, labor laws, expert testimony, mediation and arbitration, tangible property including real estate, intellectual property including trademarks, patents and copyrights, insurance and sureties.

0101	Mirosław Skibniewski	Seats (Total: 61)
	M 5:00pm - 7:30pm	CHE 2108

ENCE422 Project Cost Accounting and Economics

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics. Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.

0101	Qingbin Cui	Seats (Total: 75)
	W 5:00pm - 7:30pm	JMP 3201

ENCE423 Project Planning, Estimating & Scheduling

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing. Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.

0101	Kenneth O'Connell	Seats (Total: 75)
	M 5:00pm - 7:30pm	KEB 1110

ENCE424**Communication for Project Managers**

Credits: 3 Grading Method: Regular

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.

0101	William Brantley	Seats (Total: 117)
	Tu 5:00pm - 7:30pm	CHM 1402

ENCE426**Construction Documentation and BIM Applications in Engineering and Construction**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.

Learn the basics of construction documentation methods, with particular emphasis on Building Information Modeling (BIM). Topics include: the fundamentals of assembly, coordination, and maintenance of construction documents and implementation of BIM techniques in the design and construction processes, and; a review of Autodesk, Revit, and Navisworks and other leading BIM software. Lectures from project management faculty supplemented by guest lecturers from the construction industry.

0101	Jason Dreher	Seats (Total: 40)
	W 6:00pm - 8:30pm	CSI 2107

ENCE431 Hydrologic Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE305; and permission of ENGR-Civil & Environmental Engineering department.

An introduction to basic principles of hydrologic science including the hydrologic cycle, rainfall, surface runoff and streamflow. Special emphasis is placed on hydrologic engineering design of stormwater management and flood control facilities. Design projects are used to illustrate design practices.

0101	Richard McCuen	Seats (Total: 45)
	MWF 9:00am - 9:50am	EGR 0110

ENCE444 Experimental Methods in Geotechnical Structural Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE353 and ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

In the geotechnical engineering part of the course, major soils testing and their interpretation including classification, compaction, strength, and compressibility will be undertaken. The structural engineering part of this course covers test planning, loading apparatus, instrumentation, data acquisition and data analysis, as well as basic aspects of structural testing techniques and shake-table test.

0101	Mohamed Aggour, Yunfeng Zhang	Seats (Total: 20)
	Tu 2:00pm - 2:50pm	EGR 1110
	W 1:00pm - 4:00pm	EGR 3114 Lab
0102	Mohamed Aggour, Yunfeng Zhang	Seats (Total: 20)
	Tu 2:00pm - 2:50pm	EGR 2116
	W 1:00pm - 4:00pm	EGR 1110 Lab

ENCE447 Pavement Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE340; and permission of ENGR-Civil & Environmental Engineering department.

Fundamental principles underlying the design, construction, maintenance and repair, and management of highway and airfield pavement systems. Pavement performance (functional/structural; evaluation); pavement mechanics (multi-layered elastic theory; slab theory); pavement materials (properties and characterization); environmental effects; current rigid and flexible design methods (new/rehabilitation); construction (new construction; maintenance/repair; rehabilitation); economic evaluation; pavement management.

0101	Regis Carvalho	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	EGR 3106

ENCE453 Computer-Aided Structural Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department.

Computer-aided analysis of structural systems. Unified matrix formulation of stiffness and flexibility methods. Slope deflection method. Evaluation of truss, frame, and grid systems. Non-prismatic and curved elements. Error analysis and determination of ill-conditions. Introduction to finite element methods; formulation of simple two-dimensional elements. In laboratory, use and development of CAD software.

0101	Amde Amde	Seats (Total: 32)
	TuTh 9:30am - 10:45am	EGR 2154

ENCE455 Design of Steel Structures

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department.

Behavior and design of members subjected to fatigue, and combined bending and compression; plate girders, composite beams, open-web joists and connections. Methods of allowable stress design, and load and resistance factor design. Elements of plastic analysis and design. Framing systems and loads for industrial buildings and bridges.

0101	Brian Phillips	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	ITV 1111

ENCE466 Design of Civil Engineering Systems

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Senior standing. Additional information: Must be taken in the semester in which the student graduates.

A major civil engineering design experience that emphasizes development of student creativity, development and use of design methodologies, evaluation of alternate solutions, feasibility considerations, and detailed system descriptions. Realistic design constraints including economic factors, safety, aesthetics, and reliability will be imposed. Students will work in design project groups and be required to exercise oral and written communication skills.

0101	Russell Anderson	Seats (Total: 40)
	Tu 3:30pm - 4:45pm	EGR 1202
	Th 3:30pm - 4:45pm	EGR 1156
0201	Russell Anderson	Seats (Total: 40)
	Tu 3:30pm - 4:45pm	EGR 1202
	Th 2:00pm - 3:15pm	EGR 1156

ENCE472 Transportation Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENCE302 and ENCE370; and permission of ENGR-Civil & Environmental Engineering department.

Transportation engineering concepts including transportation systems analysis, airport systems, airline and airport operations, marine transportation and urban public transportation systems.

0101	Paul Schonfeld	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	EGR 0108

ENCE489 Special Problems in Civil Engineering

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE602 Project Procurement Management

Credits: 3 Grading Method: Regular,
Audit

Fundamental concepts and techniques for project acquisition and procurement are presented. Students are introduced to the PMBOK Guide six-step procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution. It will also cover emerging methods, principles, and practices in infrastructure project procurement, including Public-Private Partnerships, Carbon project procurement, and Clean Development Mechanism.

Weekly video conference Tuesday 8:00pm to 9:00pm.

0101	Qingbin Cui	Seats (Total: 18)
	W 2:30pm - 5:00pm	JMP 2217

ENCE604 Sustainability Fundamentals for Project Managers

Credits: 3 Grading Method: Regular,
Audit

Addresses the fundamentals of sustainability for project managers including best practices of modern sustainable construction and project management. Commercial and residential buildings consume about 40 percent of the energy used in the United States. Therefore, emphasis will be on the application of the sustainable development standards to the built environment, including the practical operational aspects of sustainable facility project management.

0101	Neil Schulman	Seats (Total: 29)
	Tu 6:00pm - 8:30pm	JMP 2217
PM01	Neil Schulman	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	<i>Weekly videoconferences Wednesdays 7:00-8:00pm.</i>	

ENCE621 Uncertainty Modeling and Analysis

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENCE302; or students who have taken courses with comparable content may contact the department.

Definition of engineering systems, knowledge levels using information science concepts as applied to engineering systems, sources and types of knowledge and ignorance, uncertainty sources and types for engineering systems, probability models, statistical models, fuzziness, fuzzy sets, fuzzy logic, fuzzy arithmetic, imprecise probabilities, evidence methods, uncertainty measures, uncertainty management, uncertainty reduction, applications of these analytical methods to engineering systems and in decision making.

0101	Bilal Ayyub	Seats (Total: 15)
	MW 2:00pm - 3:15pm	PHY 4222

ENCE624 Managing Projects in a Dynamic Environment

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

This course examines the nine principles simultaneous managers use interdependently and presents a theory of project management that is intellectually rigorous and consistent with pragmatic knowledge.

PM01	John Cable	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	<i>Weekly videoconferences Mondays 8:00-9:00pm.</i>	

ENCE627 Project Risk Management

Credits: 3 Grading Method: Regular

Restriction: Must not have completed ENCE627.

Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of project risk. Examples are drawn from construction, software development, systems integration, and other large engineering projects; and cover probability basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.

PM01	Gregory Baecher	Seats (Total: 30)
	Meets January 23, 2016 - May 11, 2016	
	Class time/details on ELMs	ONLINE
	<i>Weekly videoconferences Th 8:00-9:00 am or 7:00-8:00pm</i>	

ENCE631 Hydrologic Analysis and Nonpoint Pollution Models

Credits: 3 Grading Method: Regular,
Audit

A detailed analysis of the physical processes controlling the spatial distribution of runoff and constituent transport during rainfall and snowmelt events. Emphasis is on developing an understanding of the processes and translating this understanding into practical models that can be used for runoff simulation, stormwater management, and environmental impact assessment.

0101	Kaye Brubaker	Seats (Total: 15)
	MW 5:00pm - 6:15pm	EGR 3102

ENCE645 **Geotechnics of Waste Disposal**

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENCE489X, ENCE645, or ENCE688X. Formerly: ENCE688X.

Fundamental aspects of geotechnical engineering that apply to problems of waste containment and remediation, basic principles of containment systems, compacted clay liners and clay mineralogy, hydraulic conductivity of compacted soils, methods of laboratory and field hydraulic conductivity measurements, design of waste containment systems, landfill stability and settlement, geosynthetic liners, waste compatibility, contaminant transport through liners, leachate collection systems, gas collection systems, covers and caps.

0101	Ahmet Aydilek	Seats (Total: 15)
	Tu 5:00pm - 7:30pm	EGR 3106

ENCE655 **Environmental Behavior of Organic Pollutants**

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENCE651.

Introduction to the scientific data needed and methods currently available to assess the environmental risk of organic chemicals. Applications of principles from chemical thermodynamics will be used to study phase-transfer processes of organic pollutants in the environment (solid/water, solid/air, water/air). Physical-chemical properties of organic pollutants will be used to estimate partitioning.

0101	Alba Torrents	Seats (Total: 15)
	W 9:30am - 12:00pm	EGR 3102

ENCE662 **Introduction to Project Management**

Credits: 3 Grading Method: Regular,
Audit

Introduction to project management including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout(performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).

PM01	Man Cheung, John Cable	Seats (Total: 35)
	Meets January 23, 2016 - May 11, 2016	
	Class time/details on ELMs	ONLINE
	<i>Weekly videoconferences Th 7:00-8:00am or 8:00-9:00pm</i>	

ENCE664 Legal Aspects of Engineering Design and Construction

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examines ways in which the legal system affects the design and construction process. Focuses on contract types and the relationships between the parties in different delivery systems. Covers basics of procurement protocols along with negotiating techniques and strategies. Topics include contract law, the relationships between the parties, tort and negligence law, and the statutory principles affecting construction.

0101	Thomas Barham	Seats (Total: 50)
	W 6:00pm - 8:30pm	JMP 2121

ENCE665 Management of Project Teams

Credits: 3 Grading Method: Regular,
Audit

Experience has shown that really excellent project managers are not only technically competent but that they have above average skills in human relations and communications. The course will prepare project managers to optimize the utilization of their most important resource: people. Relying primarily on a wide range of research and experience in the Project Team, this course will help guide project managers in building the other skills needed to be truly successful in the competitive Project Team.

PM01	Kathryn Britton	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	<i>Weekly video conferences: Monday or Tuesday 7:00-8:00pm.</i>	

ENCE667 Project Performance Measurement

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Civil & Environmental Engineering department.

Examination of various techniques and models used to measure the performance of projects. Topics will include: Critical Path Method (CPM), Program Evaluation Review Technique (PERT), Gantt charts, project crashing, resource management, capital allocation, forecasting, hypothesis testing, regression analysis, learning curve analysis, goal programming, Monte Carlo simulation, the Analytic Hierarchy Process (AHP), Pareto optimality and tradeoff curves as well as basics in linear programming and uncertainty modeling.

0101	Gregory Baecher	Seats (Total: 29)
	Th 3:30pm - 6:00pm	JMP 2222

ENCE673 Urban Transportation

Credits: 3

Grading Method: Regular,
Audit

The contemporary methodology of urban transportation planning. The urban transportation planning process, interdependence between the urban transportation system and the activity system, urban travel demand models, evaluation of urban transportation alternatives and their implementation.

0101	Lei Zhang	Seats (Total: 25)
	W 2:00pm - 4:30pm	JMP 2222

ENCE674 Urban Transit Planning and Rail Transportation Engineering

Credits: 3

Grading Method: Regular,
Audit

Basic engineering components of conventional and high speed railroads and of air cushion and other high speed new technology. The study of urban rail and bus transit. The characteristics of the vehicle, the supporting way, and the terminal requirements will be evaluated with respect to system performance, capacity, cost, and level of service.

0101	Paul Schonfeld	Seats (Total: 30)
	Tu 5:00pm - 7:45pm	EGR 2116

ENCE676 Highway Traffic Flow Theory

Credits: 3

Grading Method: Regular,
Audit

An examination of physical and statistical laws that are used to represent traffic flow phenomena. Deterministic models including heat flow, fluid flow, and energy-momentum analogies, car following models, and acceleration noise. Stochastic approaches using independent and Markov processes, Queuing models, and probability distributions.

0101	Gang-Len Chang	Seats (Total: 15)
	Th 5:00pm - 7:30pm	EGR 3111

ENCE688L Advanced Topics in Civil Engineering; Advanced Transportation Demand Modeling

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Cinzia Cirillo	Seats (Total: 18)
	W 4:45pm - 7:15pm	EGR 3111

ENCE688R Advanced Topics in Civil Engineering; Civil Information Systems

Credits: 3 Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.

0101	Mark Austin	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	EGR 0108

ENCE689 Seminar

Credits: 1-16 Grading Method: Regular,
Audit

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE713 Concrete Structures I

Credits: 3 Grading Method: Regular,
Audit

Formerly: ENCE753.

The behavior and strength of reinforced concrete members under combined loadings, including the effects of creep, shrinkage and temperature. Mechanisms of shear resistance and design procedures for bond, shear and diagonal tension. Elastic and ultimate strength analysis and design of slabs. Columns in multistory frames. Applications to reinforced concrete structures.

0101	Amde Amde	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 2154

ENCE715 Earthquake Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of instructor. Formerly: ENCE755.

Review of SDOF and MDOF structural dynamics; characteristics of earthquakes; philosophies of seismic design; elastic and inelastic response spectra; design for ductility; principles of capacity design; design of structural systems requiring special performance criteria.

0101	Yunfeng Zhang	Seats (Total: 20)
	W 5:00pm - 7:30pm	EGR 3114

ENCE717 Bridge Structures

Credits: 3 Grading Method: Regular,
Audit

Formerly: ENCE751.

The design and rating of bridge structures in accordance with the AASHT WSD, LFD, ALFD, and LRFD specifications. Development of the basic strength and performance requirements as defined within AASHTO, area and various foreign codes. Projects requiring the design, rating and ultimate strength evaluations will be assigned for all of the predominate construction types including: simple and continuous span, straight and horizontally curved, non-composite and composite w and box section superstructure elements.

0101	Chung Fu	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	EGR 1104

ENCE743 Soil Dynamics and Earthquake Engineering

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENCE642 or ENCE743. Formerly: ENCE642.

Review of theory of vibration and wave propagation in elastic media. Field and laboratory methods for determining dynamic soil properties. Analysis and design of soil-foundation systems subjected to machinery generated vibrations and methods of foundation isolation. Earthquake causes, magnitude and intensity, seismic hazard evaluation, NEHRP site classification, site response analyses and ground motion amplification, liquefaction and response of earth structures.

0101	Mohamed Aggour	Seats (Total: 25)
	Th 5:00pm - 7:30pm	EGR 3102

ENCE799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCE898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCE899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Majors only. Other majors require permission of department.

Contact department for information to register for this course.

ENCH Engineering, Chemical Spring 2016**ENCH609 Graduate Seminar**

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Advanced special students require department permission.

0101	Amy Karlsson	Seats (Total: 30)
	Tu 11:00am - 12:00pm	CHE 2108

ENCH630 Transport Phenomena

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CHBE422; and ENCH424. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Heat, mass and momentum transfer theory from the viewpoint of the basic transport equations. Steady and unsteady state; laminar and turbulent flow; boundary layer theory, mechanics of turbulent transport; with specific application to complex chemical engineering situations.

0101	Panagiotis Dimitrakopoulos	Seats (Total: 30)
	MW 3:30pm - 4:45pm	EGR 2116

ENCH640 Advanced Chemical Reaction Kinetics

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CHBE440; or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

The theory and application of chemical reaction kinetics to reactor design. Reaction rate theory; homogeneous batch and flow reactors; fundamentals of catalysis; design of heterogeneous flow reactors.

0101	Dongxia Liu	Seats (Total: 30)
	MW 2:00pm - 3:15pm	EGR 2116

ENCH648 Special Problems in Chemical Engineering

(Perm req)

Credits: 1-16 Grading Method: Regular,
Audit

Contact department for information to register for this course.

ENCH648B Special Problems in Chemical Engineering; Biochemical Engineering

Credits: 3 Grading Method: Regular,
Audit

0101	Nam Sun Wang	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	EGR 1104

ENCH648K Special Problems in Chemical Engineering; Advanced Fuel Cells and Batteries

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

0101	Chunsheng Wang MWF 11:00am - 11:50am	Seats (Total: 17) JMP 2216
HT01	Chunsheng Wang Contact instructor or department for details.	Seats (Total: 5)
ME01	Chunsheng Wang Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Chunsheng Wang Contact instructor or department for details.	Seats (Total: 5)
SM01	Chunsheng Wang Contact instructor or department for details.	Seats (Total: 5)

ENCH648N Special Problems in Chemical Engineering; Bionanotechnology

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Also offered as BIOE689N. Credit granted for ENCH648N or BIOE689N.

0101	Srinivasa Raghavan TuTh 3:30pm - 4:45pm	Seats (Total: 30) CHE 2110
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ENCH672 Control of Air Pollution Sources

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department.

Sources and effects of air pollutants, regulatory trends, atmospheric dispersion models, fundamentals of two-phase flow as applied to air pollution and air pollution control systems, design of systems for control of gases and particulate matter.

0101	Mohammad Soltanieh TuTh 11:00am - 12:15pm	Seats (Total: 10) EGR 1104
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ENCH781 Polymer Reaction Engineering

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENCH640; or permission of instructor.

Advanced topics in polymerization kinetics, reactor design and analysis; addition and step-growth polymerization; homogeneous and heterogeneous polymerization; photopolymerization; reactor dynamics; optimal operation and control of industrial polymerization reactors.

0101	Kyu Yong Choi	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PHY 1204

ENCH799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENCH898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENCH899 Doctoral Dissertation Research; Chemical Engineering

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENCO Engineering, Cooperative Education

Spring 2016

ENCO099 Co-Op/Intern Work Experience; Co-op/Intern Work Experience

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.

Permission of Co-op Director required. Obtain permission and more information in 1131 College of Engineering. For special fees, see the Financial Information section of the Registration Guide.

0101	Heidi Sauber, Veronica Perrigan	Seats (Total: 200)
	Contact instructor or department for details.	

ENEE Electrical & Computer Engineering

Spring 2016

ENEE101 Introduction to Electrical & Computer Engineering

Credits: 3 Grading Method: Regular

Corequisite: MATH140. And corequisite: ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and students cannot enroll in ENEE101 and ENES100 in the same semester.

An exploration of topics within Electrical & Computer Engineering (ECE). Students will be introduced to key elements of both the Electrical Engineering and Computer Engineering curriculum, including: circuits, computing systems and software, communications and controls, electrodynamics and waves, microelectronics, signal processing, and power systems.

0101	Romel Gomez Th 4:00pm - 5:15pm MW 8:00am - 9:50am	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0102	Romel Gomez Th 4:00pm - 5:15pm MW 10:00am - 11:50am	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0103	Romel Gomez Th 4:00pm - 5:15pm MW 12:00pm - 1:50pm	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0104	Romel Gomez Th 4:00pm - 5:15pm MW 2:00pm - 3:50pm	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0105	Romel Gomez Th 4:00pm - 5:15pm TuTh 8:00am - 9:50am	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0106	Romel Gomez Th 4:00pm - 5:15pm TuTh 10:00am - 11:50am	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0107	Romel Gomez Th 4:00pm - 5:15pm TuTh 12:00pm - 1:50pm	Seats (Total: 12) JMP 3201 AVW 1344 Lab
0108	Romel Gomez Th 4:00pm - 5:15pm TuTh 2:00pm - 3:50pm	Seats (Total: 12) JMP 3201 AVW 1344 Lab

ENEE140**Introduction to Programming Concepts for Engineers**

(Perm req)

Credits: 2

Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to the programming environment: editing, compiling, UNIX, data types and variable scope; program selection, formatted/unformatted input/output, repetition, functions, arrays and strings.

0101	Tudor Dumitras	Seats (Total: 12)		
	Tu 3:30pm - 4:45pm	PLS 1140		
	WF 9:00am - 9:50am	AVW 1442		Discussion
0102	Tudor Dumitras	Seats (Total: 12)		
	Tu 3:30pm - 4:45pm	PLS 1140		
	WF 10:00am - 10:50am	AVW 1442		Discussion
0103	Tudor Dumitras	Seats (Total: 12)		
	Tu 3:30pm - 4:45pm	PLS 1140		
	WF 11:00am - 11:50am	AVW 1442		Discussion

ENEE150**Intermediate Programming Concepts for Engineers**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program. Credit only granted for: ENEE114 or ENEE150. Formerly: ENEE114.

Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.

0101	Gang Qu	Seats (Total: 12)		
	MW 12:30pm - 1:45pm	CCC 1100		
	Th 11:00am - 11:50am	AVW 1442		Discussion
0102	Gang Qu	Seats (Total: 12)		
	MW 12:30pm - 1:45pm	CCC 1100		
	Th 12:00pm - 12:50pm	AVW 1442		Discussion

0103	Gang Qu MW 12:30pm - 1:45pm Th 1:00pm - 1:50pm	Seats (Total: 12) CCC 1100 AVW 1442	Discussion
0104	Gang Qu MW 12:30pm - 1:45pm Th 2:00pm - 2:50pm	Seats (Total: 12) CCC 1100 AVW 1442	Discussion
0201	William Hawkins TuTh 8:00am - 9:15am F 9:00am - 9:50am	Seats (Total: 12) CHE 2108 AVW 2446	Discussion
0202	William Hawkins TuTh 8:00am - 9:15am F 10:00am - 10:50am	Seats (Total: 12) CHE 2108 AVW 2446	Discussion
0203	William Hawkins TuTh 8:00am - 9:15am F 11:00am - 11:50am	Seats (Total: 12) CHE 2108 AVW 2446	Discussion
0204	William Hawkins TuTh 8:00am - 9:15am F 12:00pm - 12:50pm	Seats (Total: 12) CHE 2108 AVW 2446	Discussion
0205	William Hawkins TuTh 8:00am - 9:15am F 1:00pm - 1:50pm	Seats (Total: 12) CHE 2108 AVW 2446	Discussion

ENEE200

Social and Ethical Dimensions of Engineering Technology

Credits: 3

Grading Method: Regular

CORE: IE

General Education: DSHU,
SCIS

Restriction: Sophomore standing or higher.

Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology. Special emphasis is placed on the interplay of diverse and often conflicting personal and collective values in both the development and implementation of new technologies. These subjects touch on many areas of interest including ethics, politics, business, the law, and society.

0101	Nicole Mogul TuTh 12:30pm - 1:20pm F 10:00am - 11:50am	Seats (Total: 16) EGR 1202 EGR 3111	Discussion
0102	Nicole Mogul TuTh 12:30pm - 1:20pm F 12:00pm - 1:50pm	Seats (Total: 16) EGR 1202 EGR 3111	Discussion
0103	Nicole Mogul TuTh 12:30pm - 1:20pm F 2:00pm - 3:50pm	Seats (Total: 16) EGR 1202 EGR 3114	Discussion
0104	Nicole Mogul TuTh 12:30pm - 1:20pm F 8:00am - 9:50am	Seats (Total: 16) EGR 1202 EGR 3111	Discussion
0105	Nicole Mogul TuTh 12:30pm - 1:20pm F 10:00am - 11:50am	Seats (Total: 16) EGR 1202 KEB 1200	Discussion
0201	Kazuo Nakajima MW 11:00am - 11:50am F 12:00pm - 1:50pm	Seats (Total: 16) CHE 2110 CHE 2136	Discussion
0202	Kazuo Nakajima MW 11:00am - 11:50am F 2:00pm - 3:50pm	Seats (Total: 16) CHE 2110 EGR 2116	Discussion
0203	Kazuo Nakajima MW 11:00am - 11:50am F 4:00pm - 5:50pm	Seats (Total: 16) CHE 2110 EGR 3111	Discussion
0204	Kazuo Nakajima MW 11:00am - 11:50am F 8:00am - 9:50am	Seats (Total: 16) CHE 2110 JMZ 3118	Discussion

ENEE205

(Perm req)

Electric Circuits

Credits: 4

Grading Method: Regular

Prerequisite: Minimum grade of C- in PHYS260; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE204 or ENEE205. Formerly: ENEE204.

Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.

0101	Thomas Murphy	Seats (Total: 14)		
	MW 11:00am - 12:15pm	EGR 1108		
	Tu 12:00pm - 1:50pm	AVW 1356	Lab	
	Tu 11:00am - 11:50am	AVW 1356	Discussion	
0102	Thomas Murphy	Seats (Total: 14)		
	MW 11:00am - 12:15pm	EGR 1108		
	Tu 3:00pm - 4:50pm	AVW 1356	Lab	
	Tu 2:00pm - 2:50pm	AVW 1356	Discussion	
0103	Thomas Murphy	Seats (Total: 14)		
	MW 11:00am - 12:15pm	EGR 1108		
	Th 12:00pm - 1:50pm	AVW 1356	Lab	
	Th 11:00am - 11:50am	AVW 1356	Discussion	
0104	Thomas Murphy	Seats (Total: 14)		
	MW 11:00am - 12:15pm	EGR 1108		
	Th 3:00pm - 4:50pm	AVW 1356	Lab	
	Th 2:00pm - 2:50pm	AVW 1356	Discussion	
0105	Thomas Murphy	Seats (Total: 14)		
	MW 11:00am - 12:15pm	EGR 1108		
	Tu 9:00am - 10:50am	AVW 1356	Lab	
	Tu 8:00am - 8:50am	AVW 1356	Discussion	
0106	Thomas Murphy	Seats (Total: 12)		
	MW 11:00am - 12:15pm	EGR 1108		
	Th 9:00am - 10:50am	AVW 1356	Lab	
	Th 8:00am - 8:50am	AVW 1356	Discussion	

0201	Wesley Lawson	Seats (Total: 12)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	M 12:00pm - 1:50pm	AVW 1356	Lab
	M 11:00am - 11:50am	AVW 1356	Discussion
0202	Wesley Lawson	Seats (Total: 14)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	M 3:00pm - 4:50pm	AVW 1356	Lab
	M 2:00pm - 2:50pm	AVW 1356	Discussion
0203	Wesley Lawson	Seats (Total: 14)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	W 3:00pm - 4:50pm	AVW 1356	Lab
	W 2:00pm - 2:50pm	AVW 1356	Discussion
0204	Wesley Lawson	Seats (Total: 14)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	F 12:00pm - 1:50pm	AVW 1356	Lab
	F 11:00am - 11:50am	AVW 1356	Discussion
0205	Wesley Lawson	Seats (Total: 12)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	W 12:00pm - 1:50pm	AVW 1356	Lab
	W 11:00am - 11:50am	AVW 1356	Discussion
0206	Wesley Lawson	Seats (Total: 12)	
	TuTh 12:30pm - 1:45pm	KEB 1110	
	F 9:00am - 10:50am	AVW 1356	Lab
	F 8:00am - 8:50am	AVW 1356	Discussion

ENEE222

Elements of Discrete Signal Analysis

(Perm req)

Credits: 4

Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and permission of ENGR-Electrical & Computer Engineering department. And minimum grade of C- in ENEE140; or minimum grade of C- in CMSC131. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE222, ENEE241, or MATH242. Formerly: ENEE241.

Discrete-time and continuous-time signals, sampling. Linear transformers, orthogonal projections. Discrete Fourier Transform and its properties. Fourier Series. Introduction to discrete-time linear filters in both time and frequency domains.

0101	Behtash Babadi	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	JMP 3201	
	Th 10:00am - 10:50am	KEB 2111	Lab
	Tu 10:00am - 10:50am	KEB 2111	Discussion
0102	Behtash Babadi	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	JMP 3201	
	Th 11:00am - 11:50am	KEB 2111	Lab
	Tu 11:00am - 11:50am	KEB 2111	Discussion
0103	Behtash Babadi	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	JMP 3201	
	Th 12:00pm - 12:50pm	KEB 2111	Lab
	Tu 12:00pm - 12:50pm	KEB 2111	Discussion
0201	Adrianos Papamarcou	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	KEB 1110	
	W 9:00am - 9:50am	KEB 2107	Lab
	F 9:00am - 9:50am	KEB 2107	Discussion
0202	Adrianos Papamarcou	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	KEB 1110	
	W 10:00am - 10:50am	KEB 2107	Lab
	F 10:00am - 10:50am	KEB 2107	Discussion
0203	Adrianos Papamarcou	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	KEB 1110	
	F 10:00am - 10:50am	KEB 2111	Lab
	W 10:00am - 10:50am	KEB 2111	Discussion

ENEE244

Digital Logic Design

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMs, PROMS), and similar devices. Arbitrary radix conversion.

0101	Charles Silio MW 3:30pm - 4:45pm F 8:00am - 8:50am	Seats (Total: 12) CHE 2108 EGR 1110	Discussion
0102	Charles Silio MW 3:30pm - 4:45pm F 9:00am - 9:50am	Seats (Total: 12) CHE 2108 EGR 1110	Discussion
0103	Charles Silio MW 3:30pm - 4:45pm F 10:00am - 10:50am	Seats (Total: 12) CHE 2108 JMZ 1226	Discussion
0104	Charles Silio MW 3:30pm - 4:45pm F 11:00am - 11:50am	Seats (Total: 12) CHE 2108 CHE 2116	Discussion
0201	Yavuz Oruc TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 12) PHY 4221 EGR 3111	Discussion
0202	Yavuz Oruc TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 12) PHY 4221 EGR 3102	Discussion
0203	Yavuz Oruc TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 12) PHY 4221 EGR 2116	Discussion
0204	Yavuz Oruc TuTh 2:00pm - 3:15pm M 2:00pm - 2:50pm	Seats (Total: 12) PHY 4221 EGR 3111	Discussion
0301	Joseph JaJa TuTh 11:00am - 12:15pm W 8:00am - 8:50am	Seats (Total: 12) JMP 1202 EGR 1110	Discussion

0302	Joseph JaJa TuTh 11:00am - 12:15pm W 9:00am - 9:50am	Seats (Total: 12) JMP 1202 EGR 1110	Discussion
0303	Joseph JaJa TuTh 11:00am - 12:15pm W 10:00am - 10:50am	Seats (Total: 12) JMP 1202 EGR 1110	Discussion

ENEE245

(Perm req)

Digital Circuits and Systems Laboratory

Credits: 2

Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE244. And minimum grade of C- in ENEE150; or minimum grade of C- in CMSC132. And permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of digital circuits containing logic gates, sequential elements, oscillators, and digital integrated circuits. Introduction to digital design and simulation with the Verilog Hardware Description Language (HDL).

0101	Manoj Franklin M 10:00am - 10:50am Tu 8:00am - 10:50am	Seats (Total: 12) PHY 1410 AVW 1450	Lab
0102	Manoj Franklin M 10:00am - 10:50am Tu 11:00am - 1:50pm	Seats (Total: 12) PHY 1410 AVW 1450	Lab
0103	Manoj Franklin M 10:00am - 10:50am M 2:00pm - 4:50pm	Seats (Total: 12) PHY 1410 AVW 1450	Lab
0104	Manoj Franklin M 10:00am - 10:50am W 11:00am - 1:50pm	Seats (Total: 12) PHY 1410 AVW 1450	Lab
0105	Manoj Franklin M 10:00am - 10:50am Th 11:00am - 1:50pm	Seats (Total: 12) PHY 1410 AVW 1450	Lab

0106	Manoj Franklin	Seats (Total: 12)
	M 10:00am - 10:50am	PHY 1410
	W 8:00am - 10:50am	AVW 1450 Lab
0107	Manoj Franklin	Seats (Total: 12)
	M 10:00am - 10:50am	PHY 1410
	W 2:00pm - 4:50pm	AVW 1450 Lab
0108	Manoj Franklin	Seats (Total: 12)
	M 10:00am - 10:50am	PHY 1410
	Tu 2:00pm - 4:50pm	AVW 1450 Lab
0109	Manoj Franklin	Seats (Total: 12)
	M 10:00am - 10:50am	PHY 1410
	Th 8:00am - 10:50am	AVW 1450 Lab
0110	Manoj Franklin	Seats (Total: 12)
	M 10:00am - 10:50am	PHY 1410
	Th 2:00pm - 4:50pm	AVW 1450 Lab

Students must complete all 200-level ENEE courses (or be currently registered in them) before permission will be granted to register for 300- or 400-level ENEE courses.

ENEE303 Analog and Digital Electronics

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE302 or ENEE303.

Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.

0101	Manoj Franklin	Seats (Total: 28)
	MW 2:00pm - 3:15pm	CHE 2108
	F 9:00am - 9:50am	CHE 2118 Discussion
0102	Manoj Franklin	Seats (Total: 28)
	MW 2:00pm - 3:15pm	CHE 2108
	F 10:00am - 10:50am	CHE 2136 Discussion

0201	Danilo Romero	Seats (Total: 28)	
	TuTh 2:00pm - 3:15pm	ARM 0135	
	M 11:00am - 11:50am	EGR 2116	Discussion
0202	Danilo Romero	Seats (Total: 28)	
	TuTh 2:00pm - 3:15pm	ARM 0135	
	M 12:00pm - 12:50pm	EGR 3114	Discussion

ENEE307

(Perm req)

Electronic Circuits Design Laboratory

Credits: 2

Grading Method: Regular

Prerequisite: ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department.
Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).
Credit only granted for: ENEE 306 or ENEE 307.

Students will design and test analog and digital circuits at the transistor level. FETs and BJTs will be covered. The laboratory experiments will be tightly coordinated with ENEE303 materials.

0101	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	M 2:00pm - 5:00pm	AVW 1330	Lab
0102	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	Tu 8:00am - 11:00am	AVW 1330	Lab
0103	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	Tu 2:00pm - 5:00pm	AVW 1330	Lab
0104	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	F 9:00am - 12:00pm	AVW 1330	Lab
0105	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	W 2:00pm - 5:00pm	AVW 1330	Lab
0106	Robert Newcomb	Seats (Total: 12)	
	W 9:00am - 9:50am	PHY 1410	
	Th 8:00am - 11:00am	AVW 1330	Lab

0107	Robert Newcomb W 9:00am - 9:50am Th 2:00pm - 5:00pm	Seats (Total: 12) PHY 1410 AVW 1330	Lab
0108	Robert Newcomb W 9:00am - 9:50am F 12:00pm - 3:00pm	Seats (Total: 12) PHY 1410 AVW 1330	Lab
0109	Robert Newcomb W 9:00am - 9:50am M 11:00am - 2:00pm	Seats (Total: 12) PHY 1410 AVW 1330	Lab
0201	Danilo Romero M 9:00am - 9:50am W 8:00am - 11:00am	Seats (Total: 12) CHE 2136 AVW 1330	Lab
0203	Danilo Romero M 9:00am - 9:50am Tu 11:00am - 2:00pm	Seats (Total: 12) CHE 2136 AVW 1330	Lab

ENEE313

(Perm req)

Introduction to Device Physics

Credits: 3

Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Agisilaos Iliadis MW 12:30pm - 1:45pm Th 11:00am - 11:50am	Seats (Total: 25) CCC 1111 PLS 1119	Discussion
0102	Agisilaos Iliadis MW 12:30pm - 1:45pm Th 12:00pm - 12:50pm	Seats (Total: 25) CCC 1111 HBK 0123	Discussion

0201	Danilo Romero	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	MCB 1207	
	M 10:00am - 10:50am	EGR 0108	Discussion
0202	Danilo Romero	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	MCB 1207	
	M 11:00am - 11:50am	KEB 1200	Discussion

ENEE313H Introduction to Device Physics

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE312 or ENEE313.

Basic physics of devices including fields in solids, crystal structure, properties of electrons and holes. Current flow in Si using drift-diffusion model. Properties of the pn junction. Properties of devices including BJTs, FETs and their physical characteristics.

0101	Danilo Romero	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	MCB 1207	
	M 8:00am - 8:50am	CHE 2116	Discussion

ENEE322 Signal and System Theory

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH246; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.

0101	Richard La	Seats (Total: 25)	
	MW 12:30pm - 1:45pm	PLS 1130	
	Tu 10:00am - 10:50am	EGR 2116	Discussion

0102	Richard La	Seats (Total: 25)		
	MW 12:30pm - 1:45pm	PLS 1130		
	Tu 9:00am - 9:50am	EGR 2116		Discussion
0201	Jonathan Simon	Seats (Total: 25)		
	TuTh 3:30pm - 4:45pm	CHE 2108		
	M 9:00am - 9:50am	EGR 2116		Discussion
0202	Jonathan Simon	Seats (Total: 25)		
	TuTh 3:30pm - 4:45pm	CHE 2108		
	M 10:00am - 10:50am	EGR 2154		Discussion
0301	Adrianos Papamarcou	Seats (Total: 25)		
	TuTh 11:00am - 12:15pm	EGR 1108		
	W 8:00am - 8:50am	EGR 1102		Discussion
0302	Adrianos Papamarcou	Seats (Total: 25)		
	TuTh 11:00am - 12:15pm	EGR 1108		
	W 3:00pm - 3:50pm	CHM 0124		Discussion

ENEE324

Engineering Probability

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

ENEE majors (09090) only.

0101	Alexander Barg	Seats (Total: 25)		
	MW 3:30pm - 4:45pm	EGR 1108		
	F 9:00am - 9:50am	EGR 3114		Discussion

0102	Alexander Barg	Seats (Total: 25)	
	MW 3:30pm - 4:45pm	EGR 1108	
	F 10:00am - 10:50am	EGR 2116	Discussion
0103	Alexander Barg	Seats (Total: 25)	
	MW 3:30pm - 4:45pm	EGR 1108	
	F 11:00am - 11:50am	EGR 3102	Discussion
0201	Mark Shayman	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	CHE 2118	
	W 10:00am - 10:50am	EGR 2154	Discussion
0202	Mark Shayman	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	CHE 2118	
	W 11:00am - 11:50am	EGR 2154	Discussion

ENEE324H Engineering Probability

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum. Credit only granted for: BMGT231, STAT400 or ENEE324. Additional information: Electrical Engineering and Computer Engineering majors may not substitute STAT400 for ENEE324. These courses are not interchangeable, consult your program requirements or advisor for what is acceptable toward your program of study.

Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

0101	Mark Shayman	Seats (Total: 15)	
	TuTh 3:30pm - 4:45pm	EGR 0108	
	M 12:00pm - 12:50pm	EGR 1110	Discussion

ENEE350 Computer Organization

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Formerly: ENEE250. Additional information: Electrical Engineering and Computer Engineering majors may not substitute CMSC311 for ENEE350. Not open to students who have completed ENEE250.

Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.

0101	Charles Silio MW 11:00am - 12:15pm Th 9:00am - 9:50am	Seats (Total: 20) CHE 2108 EGR 3114	Discussion
0102	Charles Silio MW 11:00am - 12:15pm Th 10:00am - 10:50am	Seats (Total: 20) CHE 2108 EGR 3114	Discussion
0103	Charles Silio MW 11:00am - 12:15pm Th 11:00am - 11:50am	Seats (Total: 20) CHE 2108 ITV 1100	Discussion
0201	Yavuz Oruc TuTh 9:30am - 10:45am F 11:00am - 11:50am	Seats (Total: 20) KEB 1110 EGR 1104	Discussion
0202	Yavuz Oruc TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 20) KEB 1110 EGR 3114	Discussion
0203	Yavuz Oruc TuTh 9:30am - 10:45am F 12:00pm - 12:50pm	Seats (Total: 20) KEB 1110 ANS 0402	Discussion

ENEE351 Theoretical Foundations of Computer Engineering

(Perm req)

Credits: 4 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE150 and ENEE244. Restriction: Permission of ENGR-Electrical & Computer Engineering department. And must be in the Computer Engineering Minor; or must be in Engineering: Electrical program.

Introduction to fundamental concepts in computer engineering, including topics in discrete math, data structures and algorithms. The course will also include a hands-on programming component. This course will provide students with the tools to design modular, time and space-efficient algorithms for real-world problems.

0101	Charalampos Papamantou	Seats (Total: 20)	
	MW 11:00am - 12:15pm	CCC 1100	
	Th 2:00pm - 2:50pm	AVW 2446	Lab
	Tu 2:00pm - 2:50pm	AVW 2446	Discussion

ENEE359F

Intermediate Topics in Computer Engineering; Advanced FPGA System Design using Verilog

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected intermediate level topics in computer engineering.

Prerequisite: permission of department.

0101	Kazuo Nakajima	Seats (Total: 12)	
	M 3:30pm - 4:45pm	AVW 2446	
	W 2:00pm - 4:50pm	AVW 2446	Lab

ENEE380

Electromagnetic Theory

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH241, PHYS270, and PHYS271; and completion of all lower-division technical courses in the EE curriculum; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program.

Introduction to electromagnetic fields. Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

ENEE majors (09090) only. Department Permission Required.

0101	Jeremy Munday	Seats (Total: 25)	
	MW 3:30pm - 4:45pm	JMP 3201	
	F 12:00pm - 12:50pm	EGR 2116	Discussion
0102	Jeremy Munday	Seats (Total: 25)	
	MW 3:30pm - 4:45pm	JMP 3201	
	F 1:00pm - 1:50pm	EGR 3114	Discussion

0103	Jeremy Munday	Seats (Total: 25)	
	MW 3:30pm - 4:45pm	JMP 3201	
	F 2:00pm - 2:50pm	JMP 1202	Discussion

ENEE381 Electromagnetic Wave Propagation

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE380; and completion of all lower-division technical courses in the EE curriculum.

Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

0101	Leonard Taylor	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	EGR 1108	
	Tu 12:00pm - 12:50pm	JMZ 0120	Discussion
0102	Leonard Taylor	Seats (Total: 25)	
	MW 2:00pm - 3:15pm	EGR 1108	
	Tu 1:00pm - 1:50pm	JMP 1109	Discussion
0201	Edo Waks	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	EGR 1108	
	M 12:00pm - 12:50pm	EGR 0108	Discussion
0202	Edo Waks	Seats (Total: 25)	
	TuTh 3:30pm - 4:45pm	EGR 1108	
	M 2:00pm - 2:50pm	EGR 3102	Discussion

ENEE381H Electromagnetic Wave Propagation

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE380; and completion of all lower-division technical courses in the EE curriculum.

Restriction: Must be in Engineering: Electrical program.

The electromagnetic spectrum: Review of Maxwell's equations; the wave equation potentials, Poynting's theorem, relationship between circuit theory and fields; propagation of electromagnetic waves in homogeneous media and at interfaces; transmission line theory, waveguides, radiation and antennas.

0101	Wesley Lawson	Seats (Total: 15)		
	MW 9:30am - 10:45am	EGR 3114		
	M 1:00pm - 1:50pm	EGR 1110	Discussion	

ENEE408A Capstone Design Project: Microprocessor-Based Design

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENEE440.

0101	William Hawkins	Seats (Total: 12)		
	Th 9:30am - 10:45am	AVW 2446		
	TBA	AVW 1454	Lab	

ENEE408D Capstone Design Project: Mixed Signal VLSI Design

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Restricted to ENEE and ENCP students. Prerequisite: ENEE303, ENEE307, and ENEE313.

Click here for more course information.

0101	Pamela Abshire	Seats (Total: 30)		
	TuTh 9:30am - 10:20am	KEB 2107		
	F 11:00am - 2:00pm	KEB 2107	Discussion	

ENEE408G Capstone Design Project: Multimedia Signal Processing

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS

Prerequisites: ENEE420 or 425.

Click here for more course information.

0101	Shihab Shamma	Seats (Total: 12)		
	M 11:00am - 12:15pm	EGR 3102		
	W 2:00pm - 5:00pm	KEB 2107	Lab	
0102	Shihab Shamma	Seats (Total: 12)		
	M 11:00am - 12:15pm	EGR 3102		
	Tu 2:00pm - 5:00pm	KEB 2107	Lab	

ENEE408I**Capstone Design Project: Autonomous Control of Interacting Robots**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: CS

0101	Gilmer Blankenship	Seats (Total: 15)
	M 10:00am - 10:50am	JMP 1202
	Tu 11:00am - 1:50pm	KEB 3209 Lab
0102	Gilmer Blankenship	Seats (Total: 15)
	M 10:00am - 10:50am	JMP 1202
	Tu 2:00pm - 4:50pm	KEB 3209 Lab

ENEE408T**Capstone Design Project; Accelerator Physics - Building the Maryland 5 MeV Cyclotron**

(Perm req)

Credits: 3 Grading Method: Regular

Culmination of prior course work in electrical and computer engineering Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are currently offered include: microprocessor-based systems, digital systems, VLSI design (both digital and mixed-signal), and optical systems.

Prerequisite: ENEE380. Corequisite: ENEE381 or PHYS411; or permission of instructor. Restriction: Permission of ECE department. Cyclotrons are versatile accelerators whose use, because of an unsurpassed economic footprint, continues to expand in basic research, industry, medicine, and education. They also capture most of fundamental physics and technology of the biggest particle accelerators, such as CERN's LHC. This course provides students with a hands-on introduction to fundamental beam physics as well as the technology of cyclotrons, their design, commissioning, and operation. Students of this course will be designing and building a cyclotron.

0101	Timothy Koeth, Brian Beaudoin	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	CHE 2140
	F 9:00am - 12:00pm	CHE 2140 Lab

ENEE413**Advanced Electronic Devices**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical) ; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENEE413 or ENEE480. Formerly: ENEE480.

Advanced devices and their physical operation, providing a thorough description of those parts not usually covered in introductory electronics courses. These include Schottky and tunnel junctions, negative resistance devices used in wireless communication, homo-structure compound semiconductor transistors, hetero-structure (quantum effect) transistors, non-volatile memory devices, photonic devices such as LEDs and solid-state lasers, solar cells, photo-detectors and camera imagers, as well as bio-related components. Special consideration will be given to achieve an understanding of noise processes that limit electronic device performance. In all cases, system-level applications will be illustrated.

0101	Agisilaos Iliadis	Seats (Total: 30)
	MW 11:00am - 12:15pm	CCC 1111

ENEE417 Microelectronics Design Laboratory

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and minimum grade of C- in ENEE307; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Students design and build fairly sophisticated circuits, mainly compose of discrete transistors and integrated circuits. Many of the projects are designed to require that students synthesize from what they have learned in many of the disciplines in electrical engineering. Students learn they can actually use their knowledge to build something very practical, which may include a high-fidelity amplifier, a radio, a memory cell, a transmitter, etc.

0101	Robert Newcomb	Seats (Total: 8)
	Tu 12:30pm - 1:20pm	CHE 2145
	M 2:00pm - 5:00pm	AVW 1334 Lab
0102	Robert Newcomb	Seats (Total: 8)
	Tu 12:30pm - 1:20pm	CHE 2145
	W 2:00pm - 5:00pm	AVW 1334 Lab
0103	Robert Newcomb	Seats (Total: 8)
	Tu 12:30pm - 1:20pm	CHE 2145
	W 8:00am - 11:00am	AVW 1334 Lab

ENEE425 Digital Signal Processing

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of all lower-division technical courses in the EE curriculum.

Sampling as a modulation process; aliasing; the sampling theorem; the Z-transform and discrete-time system analysis; direct and computer-aided design of recursive and nonrecursive digital filters; the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT); digital filtering using the FFT; analog-to-digital and digital-to-analog conversion; effects of quantization and finite-word-length arithmetic.

ENEE majors (09090) only.

0101	Piya Pal	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	ITV 1100

ENEE428 Communications Design Laboratory

(Perm req)

Credits: 2 Grading Method: Regular

EE capstone design course. Exploring the signal processing and communication systems theoretical concepts presented in ENEE 420 Communication Systems and ENEE 425 Digital Signal Processing by implementing them on actual DSP based hardware in real time.

Prerequisite: ENEE324; and completion of all lower-division technical courses in the EE curriculum.

Corequisite: ENEE425 or ENEE420. Restriction: Must be in Engineering: Electrical program.

0101	Steven Tretter	Seats (Total: 8)
	W 10:00am - 10:50am	EGR 0108
	F 9:00am - 12:00pm	AVW 1366 Lab
0102	Steven Tretter	Seats (Total: 8)
	W 10:00am - 10:50am	EGR 0108
	W 2:00pm - 5:00pm	AVW 1366 Lab

ENEE440 Microprocessors

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower division technical courses in the EE curriculum.

Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Microprocessor architectures, instruction sets, and applications. Bus structures, memory, I/O interfacing. Assembly language programming, LSI device configuration, and the embedding of microprocessors in systems.

0101	William Hawkins	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	EGR 2154

ENEE445**Computer Laboratory**

(Perm req)

Credits: 2

Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in ENEE350; and must have earned a minimum grade of regular (letter) C- in all 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

This laboratory course focuses on the hardware/software interface in computer systems. Hand-on experiments are used to teach design, construction, analysis, and measurement of both hardware and software for embedded systems. Projects emphasize using microcontrollers for control, sensing, and communication through various I/O devices.

0101	William Hawkins	Seats (Total: 12)	
	Tu 9:30am - 10:20am	EGR 3114	
	Th 2:00pm - 5:00pm	AVW 1454	Lab

ENEE446**Digital Computer Design**

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: ENEE350; and completion of all lower-division technical courses in the EE curriculum.

Hardware design of digital computers. Arithmetic and logic units, adders, multipliers and dividers. Floating-point arithmetic units. Bus and register structures. Control units, both hardwired and microprogrammed. Index registers, stacks, and other addressing schemes. Interrupts, DMA and interfacing.

ENEE majors (09090) only.

0101	Donald Yeung	Seats (Total: 30)	
	MW 2:00pm - 3:15pm	JMP 1202	
0201	Manoj Franklin	Seats (Total: 30)	
	TuTh 3:30pm - 4:45pm	ITV 1111	

ENEE447**Operating Systems**

(Perm req)

Credits: 4

Grading Method: Regular

Prerequisite: CMSC330, CMSC351, and ENEE350; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Computer program; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENEE447, CMSC412, or ENEE459S. Formerly: ENEE459S.

The course will present the theory, design, implementation and analysis of computer operating systems. Through classroom lectures, homework, and projects, students learn the fundamentals of concurrency, process management, interprocess communication and synchronization, job scheduling algorithms, memory management, input-output devices, file systems, and protection and security in operating systems. Optional topics may include communications protocols, computer security, and real-time operating systems. The lectures will be complemented with a significant level of programming, bringing up a simple operating system from scratch, concurrently as the topics are discussed in lecture. A weekly recitation section will provide TA support and an informal laboratory atmosphere. Each student will have their own board, so development will be done largely outside the classroom at each student's pace.

0101	Bruce Jacob	Seats (Total: 12)	
	MW 11:00am - 12:15pm	JMP 1202	
	F 9:00am - 10:50am	Location: TBA	Discussion
0102	Bruce Jacob	Seats (Total: 12)	
	MW 11:00am - 12:15pm	JMP 1202	
	F 11:00am - 12:50pm	Location: TBA	Discussion

ENEE459E Topics in Computer Engineering; Introduction to Cryptology

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in computer engineering.

Prerequisites: Any two 400-level MATH courses; or (CMSC351 and CMSC330); or (ENEE322 and ENEE380). Credit only granted for: ENEE459E, CMSC456, CMSC489R, or MATH456. Over the past two decades, cryptography has become a highly relevant field: In addition to military and national security applications, cryptography is currently being used in critical financial, legal, and social applications. The aim of cryptography is to construct efficient schemes that allow parties to interact to implement some functionality, even when some subset of parties are malicious and behave adversarially. In contrast to the classical approach based on heuristics and ad-hoc solutions, modern cryptography aims for specific, rigorous security guarantees based on precise mathematical definitions and provably secure protocols.

0101	Dana Dachman-Soled	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	CSI 2107	

ENEE461 Control Systems Laboratory

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and minimum grade of C- in ENEE322; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical). Credit only granted for: ENEE461, ENME461, or ENME489N.

Students will design, implement, and test controllers for a variety of systems. This will enhance their understanding of feedback control and familiarize them with the characteristics and limitations of real control devices. They will also complete a small project. This will entail writing a proposal, purchasing parts for their controller, building the system, testing it, and writing a final report describing what they have done.

Prerequisite: permission of department. Also offered as ENME461. Credit granted for ENME461 or ENEE461.

0101	William Levine MW 9:00am - 9:50am M 2:00pm - 5:00pm	Seats (Total: 14) KEB 1110 KEB 3209 Lab
0102	William Levine MW 9:00am - 9:50am W 2:00pm - 5:00pm	Seats (Total: 14) KEB 1110 KEB 3209 Lab
0103	William Levine MW 9:00am - 9:50am F 9:00am - 12:00pm	Seats (Total: 14) KEB 1110 KEB 3209 Lab
0104	William Levine MW 9:00am - 9:50am W 11:00am - 2:00pm	Seats (Total: 14) KEB 1110 KEB 3209 Lab

ENEE463

(Perm req)

Digital Control Systems

Credits: 3 Grading Method: Regular

Prerequisite: ENEE322; and completion of lower-division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Formerly: ENEE469E.

Introduction to techniques for the analysis and design of linear control systems and implementation of control systems using digital technology. Topics include linearization, solution of linear equations, z-transforms and Laplace transforms, design of linear controllers, optimal control, and digital implementation of control designs. Students will use MATLAB for the solution of problems and the design of control systems.

0101	Gilmer Blankenship	Seats (Total: 40)
	MW 12:30pm - 1:45pm	EGR 0110

ENEE473 Electrical Machines Laboratory

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE205; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Recommended: ENEE322. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

Experiments involving single and three phase transformers, induction machines, synchronous machines and D.C. machines.

0101	David Bowen	Seats (Total: 12)
	F 1:00pm - 1:50pm	JMP 1109
	F 2:00pm - 5:00pm	AVW 1360 Lab
0102	David Bowen	Seats (Total: 12)
	F 1:00pm - 1:50pm	JMP 1109
	F 9:00am - 12:00pm	AVW 1360 Lab

ENEE475 Power Electronics

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in ENEE303; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).

This course is suitable for undergraduate and graduate students who want to learn the basic principles of power electronics and its applications. Special emphasis is placed on interdisciplinary nature of power electronics. Strong and intimate connections between power electronics and circuit theory, electronic circuits, semiconductor devices, electric power, magnetic, motor drives and control are stressed.

0101	Isaak Mayergoyz	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	KEB 1110

ENEE488 Independent Study in Electrical and Computer Engineering

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.

0201	John Baras	Seats (Total: 3)
	Contact instructor or department for details.	
1201	Romel Gomez	Seats (Total: 3)
	Contact instructor or department for details.	
1801	Robert Newcomb	Seats (Total: 3)
	Contact instructor or department for details.	
4601	Thomas Antonsen	Seats (Total: 10)
	Contact instructor or department for details.	
5601	Jonathan Simon	Seats (Total: 10)
	Contact instructor or department for details.	
9801	Jeremy Munday	Seats (Total: 10)
	Contact instructor or department for details.	

ENEE489A Topics in Electrophysics; Laboratory for Antennas for Wireless Personal Communication

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrophysics.

0101	Sergio Picozzi	Seats (Total: 10)
	Tu 12:30pm - 1:45pm	AVW 2446
	Th 11:00am - 2:00pm	AVW 2446 Lab
<p><i>Prerequisites: ENEE 381 or equivalent. A senior level advanced laboratory course designed to provide hands-on exposure on concepts of antennas design, including computer modeling, fabrication and testing of small scale antennas used in personal communication systems. The course builds upon the concepts of electromagnetic wave introduced in ENEE381. Students will learn how to use state of the art microwave testing apparatus and techniques, simulate electromagnetic properties based on geometry as well as design, build and test several prototype antenna configurations.</i></p>		

ENEE489Q Topics in Electrophysics; Quantum Phenomena in Electrical Engineering

(Perm req)

Credits: 3 Grading Method: Regular

Selected topics of current importance in electrophysics.

Prerequisite: MATH241 and (ENEE222 or ENEE241), ENEE303, ENEE381 and ENEE380. The course provides fundamental understanding of quantum mechanical principles for electrical engineering and nanotechnology applications. It is designed to acquaint electrical and computer engineering students with concepts on which modern electronic and optical devices are based. Topics include: wave phenomena and wave-particle duality, photons and quantum states, entanglement, paradoxes, quantum cryptography, Schrodinger's equation in 1-dimension, bound states, tunneling, scattering problems, optoelectronic and electronic devices and superconducting Josephson's junctions.

0101	Julius Goldhar	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMP 1202

ENEE496 Lasers and Electro-optic Devices

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENEE381; and completion of all lower-division technical courses in the EE curriculum.

Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).

Modern physical optics: Gaussian beams, optical resonators, optical waveguides; theory of laser oscillation, rate equations; common laser systems. Selected modern optoelectronic devices like detectors and modulators. Role of lasers and optoelectronics in modern technology.

0101	Mario Dagenais	Seats (Total: 40)
	MW 3:30pm - 4:45pm	EGR 0135

ENEE499 Senior Projects in Electrical and Computer Engineering

(Perm req)

Credits: 1-5 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

ENEE majors (09090) only.

Contact department for information to register for this course.

ENEE499L Senior Projects in Electrical and Computer Engineering

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499R**Senior Projects in Electrical and Computer Engineering**

(Perm req)

Credits: 1-3 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE499T**Senior Projects in Electrical and Computer Engineering; Undergraduate Teaching Experience**

(Perm req)

Credits: 1-2 Grading Method: Regular

The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily - experimental research project. In that case, the student will enroll in ENEE499L.

Contact department for information to register for this course.

ENEE601**Semiconductor Devices and Technology**

Credits: 3 Grading Method: Regular,
Audit

Recommended: ENEE413 and ENEE600. Credit only granted for: ENEE601 or ENEE697. Formerly: ENEE697.

The principles, structures and characteristics of semiconductor devices Technology and fabrication of semiconductor devices.

0101	Martin Peckerar	Seats (Total: 30)
	MW 3:30pm - 4:45pm	JMP 1202

ENEE611 Integrated Circuit Design and Analysis

Credits: 3 Grading Method: Regular,
Audit

Recommended: ENEE610. Credit only granted for: ENEE611 or ENEE696. Formerly: ENEE696.

Active and passive elements used in semiconductor structures. Design application of linear and digital integrated circuits.

0101	Timothy Horiuchi	Seats (Total: 30)
	MW 12:30pm - 1:45pm	CHE 2118

ENEE620 Random Processes in Communication and Control

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.

Introduction to random processes: characterization, classification, representation; Gaussian and other examples. Linear operations on random processes, stationary processes: covariance function and spectral density. Linear least square waveform estimating Wiener-Kolmogoroff filtering, Kalman-Bucy recursive filtering: function space characterization, non-linear operations on random processes.

0101	Anthony Ephremides	Seats (Total: 20)
	MW 2:00pm - 3:15pm	CHE 2136
	F 3:30pm - 4:45pm	EGR 1102 Discussion

ENEE621 Estimation and Detection Theory

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE620; or students who have taken courses with comparable content may contact the department.

Estimation of unknown parameters, Cramer-Rao lower bound; optimum (map) demodulation; filtering, amplitude and angle modulation, comparison with conventional systems; statistical decision theory Bayes, minimax, Neyman/Pearson, Criteria-68 simple and composite hypotheses; application to coherent and incoherent signal detection; M-ary hypotheses; application to uncoded and coded digital communication systems.

0101	Armand Makowski	Seats (Total: 45)
	MW 12:30pm - 1:45pm	EGR 3106

ENEE627 Information Theory

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE620. Credit only granted for: ENEE627 or ENEE721. Formerly: ENEE721.

Information measures and their properties; entropy, relative entropy and mutual information. Information source models. Lossless data compression: the Kraft inequality, Shannon-Fano and Huffman codes. Typical sequences, asymptotic equipartition property, lossy source coding. Discrete memoryless channels: capacity, channel coding theorem. The additive Gaussian channel. Source coding under a fidelity constraint: rate distortion function and rate distortion theorem.

0101	Prakash Narayan	Seats (Total: 39)
	TuTh 5:00pm - 6:15pm	CSI 1121

ENEE631 Digital Image and Video Processing

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE620 and ENEE630; or students who have taken courses with comparable content may contact the department.

Foundations of digital image and video processing. Topics covered: 2-D systems and transforms; image acquisition and perception; multi-dimensional sampling; quantization; linear and non-linear techniques for image enhancement and restoration; basics on image analysis; lossless and lossy image compression; motion estimation and compensation; still image and video coding standards; applications of image and video processing.

0101	KJ Ray Liu	Seats (Total: 30)
	MW 11:00am - 12:15pm	CHE 2118

ENEE640 Digital CMOS VLSI Design

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE303 and ENEE350; or students who have taken courses with comparable content may contact the department; or permission of instructor.

Review of MOS transistors: fabrication, layout, characterization; CMOS circuit and logic design: circuit and logic simulation, fully complementary CMOS logic, pseudo-nMOS logic, dynamic CMOS logic, pass-transistor logic, clocking strategies; sub system design: ALUs, multipliers, memories, PLAs; architecture design: datapath, floorplanning, iterative cellular arrays, systolic arrays; VLSI algorithms; chip design and test: full custom design of chips, possible chip fabrication by MOSIS and subsequent chip testing.

0101	Ankur Srivastava	Seats (Total: 40)
	MW 3:30pm - 4:45pm	EGR 1104

ENEE645 Compilers and Optimization

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE350 or CMSC216; or students who have taken courses with comparable content may contact the department. Credit only granted for: ENEE645 or ENEE759C. Formerly: ENEE759C.

The compilation, linking and loading process. Using lexical analyzers and parsers. Intermediate forms. Global, stack and heap objects, and their addressing modes. Stack implementation. Control flow analysis and optimization. Dataflow analysis and optimization including Static, single assignment. Alias analysis.

0101	Rajeev Barua	Seats (Total: 43)
	TuTh 12:30pm - 1:45pm	EGR 3106

ENEE651 Parallel Algorithms

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CMSC451; or ENEE641; or students who have taken courses with comparable content may contact the department. Also offered as: CMSC751. Credit only granted for: ENEE651, ENEE759K or CMSC751. Formerly: ENEE759K.

A presentation of the theory of parallel computers and parallel processing. Models of parallel processing and the relationships between these models. Techniques for the design and analysis of efficient parallel algorithms including parallel prefix, searching, sorting, graph problems, and algebraic problems. Theoretical limits of parallelism.

0101	Uzi Vishkin	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EGR 0108

ENEE661 Nonlinear Control Systems

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE660; and (MATH410 or MATH411; or students who have taken courses with comparable content may contact the department). Or permission of instructor.

State space methods of stability analysis including second order systems and the phase plane, linearization and stability in the small, stability in the large and Lyapunov's second method. Frequency domain methods including the describing function. Popov's method and functional analytic methods. Introduction to Volterra series representations of nonlinear systems. Applications to control system design.

0101	Andre Tits	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	EGR 2154

ENEE664 Optimal Control

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE660 and MATH410; or students who have taken courses with comparable content may contact the department; or permission of instructor. Corequisite: MATH411; or permission of instructor.

General optimization and control problems. Conditions of optimality for unconstrained and constrained optimization problems; sensitivity; duality. Introduction to linear and nonlinear programming methods. Dynamic optimization. Discrete time maximum principle and applications. Pontryagin maximum principle in continuous time. Dynamic programming. Feedback realization of optimal control.

0101	Perinkulam Krishnaprasad	Seats (Total: 39)
	MW 5:00pm - 6:15pm	CSI 1122

ENEE681 Electromagnetic Theory II

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.

Continuation of ENEE 680. Theoretical analysis and engineering applications of Maxwell's equations. The homogeneous wave equation. Plane wave propagation. The interaction of plane waves and material media. Retarded potentials. The Hertz potential. Simple radiating systems. Relativistic covariance of Maxwell's equations.

0101	Edward Ott	Seats (Total: 30)
	MW 2:00pm - 3:15pm	EGR 1104

ENEE691 Optical Communication Systems

Credits: 3 Grading Method: Regular,
 Audit

Optical components and systems. Measures of performance of optical communication systems. Topics include: single and multi-mode optical fibers, DFB and DBR lasers, transmitters and receivers, pin and APD detectors, noise analysis, receiver sensitivity modulation formats, system performance, bit-error-rate, power budget, TDM and WDM systems, network architecture.

0101	Mario Dagenais	Seats (Total: 30)
	MW 11:00am - 12:15pm	EGR 1104

ENEE698D Graduate Seminar; Electrophysics

Credits: 1 Grading Method: Regular,
 Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

Also offered as PHYS798E. Credit granted for ENEE698D or PHYS798E.

0101	Phillip Sprangle	Seats (Total: 41)
	Th 12:30pm - 1:45pm	PHY 4221

ENEE698E Graduate Seminar; Microelectronics

Credits: 1-2 Grading Method: Regular,
 Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Robert Newcomb	Seats (Total: 20)
	Tu 5:00pm - 5:50pm	CSI 2118

ENEE698Q Graduate Seminar; Colloquium Series

Credits: 1 Grading Method: Regular,
 Audit, Sat-Fail

Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.

0101	Ramalingam Chellappa	Seats (Total: 80)
	F 3:00pm - 4:00pm	KEB 1110

ENEE699 Independent Studies in Electrical Engineering

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.

Contact department for information to register for this course.

ENEE719B Advanced Topics in Microelectronics; Advanced Power Electronics

Credits: 3 Grading Method: Regular,
Audit

0101	Alireza Khaligh	Seats (Total: 20)
	MW 2:00pm - 3:15pm	EGR 2154

ENEE789M Advanced Topics in Electrophysics; Quantum Technology

Credits: 3 Grading Method: Regular,
Audit

Topics selected, as announced every semester, from the field of electrophysics and its applications.

0101	Jacob Taylor, Mohammad Hafezi	Seats (Total: 30)
	MW 3:00pm - 4:15pm	PHY 1204

ENEE790 Quantum Electronics I

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have knowledge of quantum mechanics; or permission of instructor.

Spontaneous emission, interaction of radiation and matter, masers, optical resonators, the gas, solid and semi-conductor lasers, electro-optical effect, propagation in anisotropic media and light modulation.

0101

Danilo Romero

Seats (Total: 30)

MW 12:30pm - 1:45pm

JMP 1202

ENEE799**Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Sat-Fail

Contact department for information to register for this course.**ENEE889****Teaching Workshop**

(Perm req)

Credits: 1

Grading Method: Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.**ENEE898****Pre-Candidacy Research**

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-Fail

Provide training in education for senior PhD students who contemplate a academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.

Contact department for information to register for this course.**ENEE899****Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Sat-Fail

Contact department for information to register for this course.**ENES****Engineering Science****Spring 2016****ENES100****Introduction to Engineering Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

CORE: PS

General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

Credit granted for ENES100 or ENES100A.

0101	Michael Galczynski MW 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) JMP 1116 ONLINE
0102	Ayush Gupta MW 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) JMP 1215 ONLINE
0201	Jackelyn Lopez Roshwalb TuTh 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) JMP 1116 ONLINE
0202	Patrick McAvoy TuTh 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 26) JMP 1215 ONLINE
0301	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 21) JMP 1116 ONLINE
0302	Patrick McAvoy MW 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 16) JMP 1215 ONLINE
0401	Michael Galczynski TuTh 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 30) JMP 1116 ONLINE
0402	Romel Gomez TuTh 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 30) JMP 1215 ONLINE
0501	Christopher Davis MW 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 30) JMP 1116 ONLINE
0502	Michael Galczynski MW 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 30) JMP 1215 ONLINE

0601	Evandro Valente TuTh 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 11) JMP 1116 ONLINE
0602	Jackelyn Lopez Roshwalb TuTh 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 15) JMP 1215 ONLINE

ENES100A

Introduction to Engineering Design

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSSP

Corequisite: MATH140.

Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.

Restricted to non-engineering students. Credit granted for ENES100 or ENES100A.

0101	Michael Galczynski MW 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 10) JMP 1116 ONLINE
0102	Ayush Gupta MW 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 10) JMP 1215 ONLINE
0201	Jackelyn Lopez Roshwalb TuTh 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 10) JMP 1116 ONLINE
0202	Patrick McAvoy TuTh 10:00am - 11:50am Class time/details on ELMs	Seats (Total: 14) JMP 1215 ONLINE
0301	Evandro Valente MW 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 19) JMP 1116 ONLINE
0302	Patrick McAvoy MW 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 24) JMP 1215 ONLINE

0401	Michael Galczynski TuTh 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 10) JMP 1116 ONLINE
0402	Romel Gomez TuTh 12:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 10) JMP 1215 ONLINE
0501	Christopher Davis MW 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 10) JMP 1116 ONLINE
0502	Michael Galczynski MW 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 10) JMP 1215 ONLINE
0601	Evandro Valente TuTh 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 29) JMP 1116 ONLINE
0602	Jackelyn Lopez Roshwalb TuTh 2:00pm - 3:50pm Class time/details on ELMs	Seats (Total: 25) JMP 1215 ONLINE

ENES102

(Perm req)

Mechanics I

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	William Fourney MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 49) KEB 1200 PHY 1402	Discussion
0201	Mary Bowden TuTh 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 49) EGR 0110 HBK 0115	Discussion

0401	Jackelyn Lopez Roshwalb MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) PLS 1130 CHM 2201	Discussion
0601	Robert Bonenberger MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) EGR 1108 CSI 1122	Discussion
0701	Thomas Beigel MW 12:00pm - 12:50pm F 12:00pm - 1:50pm	Seats (Total: 50) KEB 1200 CSI 1122	Discussion
0801	Robert Bonenberger MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 50) HBK 0115 CHM 0115	Discussion
0901	Gary Pertmer MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) CHM 0115 CHM 0115	Discussion

ENES108

(Perm req)

Achieving College Success: First Year Transition

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

An exploration of the skills and habits needed to successfully complete the first year of study for Science, Technology, Engineering, and Mathematics (STEM) majors. This course is an extension of the college success seminars taught during the Summer Bridge Program.

0101	Michelle Udeli M 6:00pm - 6:50pm	Seats (Total: 16) EGR 3114
0102	Michelle Udeli M 5:30pm - 6:30pm	Seats (Total: 20) EGR 3106

ENES114

Virtus Seminar II

Credits: 1 Grading Method: Regular

Prerequisite: ENES113. Restriction: Students must be participants in the Virtus Living and Learning Community.

Focus on personal and professional development with engineering with a strong emphasis on career development. Learn to employ strategies and skills for academic and professional success.

0101	Catherine Donohoe	Seats (Total: 50)
	W 4:00pm - 5:15pm	CSS 2428
0201	Catherine Donohoe	Seats (Total: 20)
	Contact instructor or department for details.	

ENES116 FLEXUS Living and Learning Community Seminar II

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES215, ENES115, and ENES116. Restriction: Must be a second year FLEXUS participant (coded as WCY).

The seminar focuses on personal and professional development by enhancing technical ability, understanding educational options through minors and student projects in engineering, identifying and employing strategies and skills for academic and professional success, and developing career commitment through networking and mentoring. Students develop professional portfolios in preparation for a future internship or job.

0101	Paige Smith, Veronica Perrigan	Seats (Total: 60)
	W 4:00pm - 5:15pm	KEB 1110
0102	Veronica Perrigan, Paige Smith	Seats (Total: 10)
	Contact instructor or department for details.	

ENES140 Discovering New Ventures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.

Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE):
<http://ter.ps/iamFEARLESS> Click here for more information on the Fearless Ideas Courses.*

0101	James Green	Seats (Total: 650)
	Class time/details on ELMs	ONLINE
0201	James Green	Seats (Total: 650)
	Class time/details on ELMs	ONLINE

ENES190H Introduction to Design and Quality

Credits: 4

Grading Method: Regular

General Education: DSSP

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Also offered as: BMGT190. Credit only granted for: BMGT190 or ENES190.

Expose engineering and business students to the principles of total quality, using experiential team learning and technology aided approaches. The first of four courses in total quality.

Restricted to QUEST program students. Also offered as BMGT190H. Credit granted for BMGT190H or ENES190H.

0101	Pamela Armstrong	Seats (Total: 45)
	TuTh 12:30pm - 1:45pm	VMH 1415
	Tu 7:00pm - 8:50pm	VMH 1412 Discussion

ENES214 Virtus Seminar IV

(Perm req)

Credits: 1

Grading Method: Regular

Prerequisite: Students must have completed ENES213. Restriction: Students must be participants in the Virtus Living and Learning Community.

Students continue to develop their leadership and mentoring skills, participate in networking opportunities and explore their interest in special engineering topics.

0101	Tamara Fuller	Seats (Total: 40)
	W 4:00pm - 5:15pm	PLS 1119

ENES216 FLEXUS Living and Learning Community Seminar IV

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES115, ENES116, and ENES215. Restriction: Restricted to second year FLEXUS participants.

The seminar focuses on gender diversity and its cross-sections with culture. Students continue to enhance their leadership and mentoring skills, participate in networking opportunities with women in leadership roles and careers in engineering, and engage in opportunities for outreach and service-learning. Students will also complete a culminating semester project.

0101	Paige Smith W 4:00pm - 5:15pm	Seats (Total: 40) PHY 1201
0102	Paige Smith Contact instructor or department for details.	Seats (Total: 35)

ENES220

Mechanics II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

0101	Thomas Beigel MW 2:00pm - 2:50pm F 2:00pm - 3:50pm	Seats (Total: 50) ANS 0408 ANS 0408 Discussion
0102	Peter Chang MW 9:00am - 9:50am F 9:00am - 10:50am	Seats (Total: 50) EGR 1108 HBK 0115 Discussion
0103	Bongtae Han MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) KEB 1110 PLS 1140 Discussion
0105	Teng Li MW 11:00am - 11:50am F 11:00am - 12:50pm	Seats (Total: 50) HBK 0115 CSI 1121 Discussion

ENES221

Dynamics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

Engineering College (04) only.

0101	James Duncan	Seats (Total: 49)	
	TuTh 9:00am - 9:50am	EGR 0110	
	F 9:00am - 10:50am	KEB 1110	Discussion
0102	James Duncan	Seats (Total: 49)	
	TuTh 1:00pm - 1:50pm	PHY 1402	
	F 1:00pm - 2:50pm	CHE 2118	Discussion
0104	Patrick McAvoy	Seats (Total: 50)	
	TuTh 1:00pm - 1:50pm	CHE 2110	
	F 1:00pm - 2:50pm	SPH 1301	Discussion

ENES232

Thermodynamics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE300, ENCH300, ENES232, ENMA461, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Kristen Hines	Seats (Total: 50)	
	MW 9:00am - 9:50am	PHY 4221	
	F 9:00am - 10:50am	CSI 1121	Discussion
0201	Jungho Kim	Seats (Total: 50)	
	MW 1:00pm - 1:50pm	EGR 1108	
	F 1:00pm - 2:50pm	EGR 1108	Discussion

0301	Christopher Cadou MW 3:00pm - 3:50pm F 2:00pm - 3:50pm	Seats (Total: 50) PLS 1130 PLS 1130	Discussion
0401	Kristen Hines MW 1:00pm - 1:50pm F 1:00pm - 2:50pm	Seats (Total: 48) CSS 2400 ITV 1111	Discussion
0501	Kevin Calabro MW 10:00am - 10:50am F 10:00am - 11:50am	Seats (Total: 50) CSI 3117 CSI 3117	Discussion
0601	Kevin Calabro MW 3:00pm - 3:50pm F 2:00pm - 3:50pm	Seats (Total: 50) PHY 1201 SPH 1303	Discussion

ENES304
RISE Seminar

Credits: 1 Grading Method: Regular

Restriction: Must be in the Engineering RISE Leadership Program; and permission of ENGR-A. James Clark School of Engineering.

This is the first semester of a two semester sequence taken by RISE students in their first semester in the program. The purpose of ENES 304 is for RISE students to learn about leadership, acquire leadership skills, and understand how to integrate leadership theories and concepts in engineering practice. There will be a mix of formal lectures by course faculty and lectures by distinguished speakers who can provide their own experience of what leadership means and how it is acquired. Students will explore their own leadership philosophy and leadership capacities in the context of group practice. Students will make meaning of general leadership theories and concepts and understand how to apply them to engineering industry. Students will also gain understanding of leadership through the stories shared by distinguished speakers with industrial, governmental and academic experience.

Contact department for information to register for this course.

ENES305
RISE Leadership Seminar

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: Permission of ENGR-A. James Clark School of Engineering; and ENES304.

This is the second semester of a two semester sequence taken by RISE students in their final semester in the program. The purpose of ENES 305 is for RISE students to learn about leadership, acquire leadership skills, and understand how to integrate leadership theories and concepts in engineering practice. There will be a mix of formal lectures by course faculty and lectures by distinguished speakers who can provide their own experience of what leadership means and how it is acquired. Students will explore their own leadership philosophy and leadership capacities in the context of group practice. Students will make meaning of general leadership theories and concepts and understand how to apply them to engineering industry. Students will also gain understanding of leadership through the stories shared by distinguished speakers with industrial, governmental and academic experience.

0101	Christopher Davis	Seats (Total: 60)
	W 5:00pm - 6:00pm	JMP 1116

ENES317 Introduction to Engineering Leadership

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Prerequisite: Permission of ENGR-A. James Clark School of Engineering.

Focus is placed on general leadership theories in addition to real-world applications of leadership in engineering education, industry, and government.

Restricted to students in the Engineering Leadership Development minor. All others may go on the holdfile.

0101	Ramsey Jabaji	Seats (Total: 30)
	M 5:00pm - 7:45pm	JMP 1202

ENES390H Systems Thinking for Managerial Decision Making

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES190 or BMGT190. Restriction: Must be in the QUEST program. Also offered as: BMGT390. Credit only granted for: BMGT390, BMGT498X, ENES390, or ENES498X.

An introduction to the theory, concepts, tools, and practices of system thinking to enhance managerial decision making. Offers a blend of theory, real-life examples, and proven methods to initiate and sustain an organization-wide reorientation towards systems thinking.

0101	Jose Suarez	Seats (Total: 45)
	MW 11:00am - 12:15pm	VMH 1415

ENES397 Mentoring Design and Quality Teams

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT397. Credit only granted for: BMGT397, ENES397, or BMGT398D. Formerly: BMGT398D.

Practice essential skills for leading and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.

0101	Pamela Armstrong	Seats (Total: 10)
	Tu 6:00pm - 8:50pm	VMH 1415

ENES440 Science, Technology and Society: Certificate Program Capstone

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in the Science, Technology and Society certificate program; or permission of ENGR-A. James Clark School of Engineering. Credit only granted for: ENES440 or UNIV401. Formerly: UNIV401.

Capstone research seminar for students in the Science, Technology and Society certificate program.

0101	David Tomblin	Seats (Total: 25)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

ENES458B Topics in International Engineering; Engineers Without Borders: Leadership Seminar-Brazil

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES460 Fundamentals of Technology Start-Up Ventures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461 or HLMN470. Formerly: ENES489A. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

0101	Cait von Schnetlage	Seats (Total: 95)
	Class time/details on ELMs	ONLINE
<i>Restricted to students enrolled in the Minor in Technology Entrepreneurship (#EN06).</i>		

ENES462

Marketing High-Technology Products and Innovations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Examines the opportunities and challenges of marketing high-technology products in turbulent environments requiring rapid decision making with incomplete information. Explores how innovations are introduced at frequent intervals, research-and-development spending is vital, and there are high mortality rates for both products and businesses.

0101	James Green	Seats (Total: 60)
	TuTh 5:00pm - 6:15pm	SCC 2121
<i>Restricted to student enrolled in the Hinman CEO (HCEO) program.</i>		
0201	Cait von Schnetlage	Seats (Total: 60)
	F 1:00pm - 3:30pm	WDS 1114
<i>Restricted to Hillman Entrepreneurs Program.</i>		

ENES464

International Entrepreneurship and Innovation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Focuses on the need for every entrepreneur and innovator to understand the global market in today's hypercompetitive world, and to appreciate how to compete effectively in domestic markets by managing international competitors, suppliers, and influences. Explore how the distinction between foreign and domestic markets is becoming less pronounced. Develop skills to identify and manage opportunities on a global basis.

0101	Lisa Wolf	Seats (Total: 60)
	F 1:00pm - 3:30pm	MCB 1207
<i>Restricted to Hillman Entrepreneurs Program (HENT).</i>		

ENES466 **Leading and Financing the Technology Venture**

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES466, BMGT365 or HLMN471. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Focuses on the challenges of leading and financing new technology ventures. Leadership topics include team selection and formation, aligning rewards with relative contributions of team members, and how early decisions can enable or prevent founders from achieving results that align with their individual motivations for becoming an entrepreneur. Essential tools and methods for building a strong financial foundation for a new technology venture are examined. Includes important accounting principles as well as methods for keeping financial control of the technology venture. Insights are shared on navigating the multitude of financial barriers that may block your entrepreneurial success, as well as how to grow the technology venture from concept through launch.

0101	Michael Pratt	Seats (Total: 80)
	TuTh 5:00pm - 6:15pm	SQH 1120
<i>Restricted to students enrolled in the Hinman CEO (HCEO) program.</i>		
0201	Michael Pratt	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
<i>Restricted to students enrolled in the Minor in Technology Entrepreneurship (EN06).</i>		

ENES472 **International Business Cultures in Engineering and Technology**

Credits: 3 Grading Method: Regular, General Education: DVCC
 Pass-Fail, Audit

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Restriction: Sophomore standing or higher. Also offered as: SLLC472. Credit only granted for: ARHU439B, ARHU439E, ARHU439T, ENES472, SLLC471, SLLC472, or SLLC473. Formerly: ARHU439T.

The goal is to provide students with an understanding of cultural aspects pertaining to global business and engineering and develop the cultural understanding, attitudes, and communication skills needed to function appropriately within an increasingly global and multicultural working environment.

Restricted to students with the minor in international engineering (#EN01) and in engineering leadership development (#EN04). Students in global poverty (#AG06), in terrorism studies (#BS07), or in international development and conflict management (#BS02) may request permission for the course from Jane Fines (jfines@umd.edu). All other students can be placed on a hold file.

BL01	Jane Fines	Seats (Total: 45)
	Th 6:00pm - 7:45pm	KEB 1200
	Class time/details on ELMs	ONLINE

ENES474 Global Perspectives of Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES100; or permission of ENGR-A. James Clark School of Engineering. Restriction: Must be in the International Engineering Minor. Credit only granted for: ENES458M or ENES474. Formerly: ENES458M.

Faculty supervised research on aspects of engineering in a foreign country including leading fields of research, key world markets, and the culture of the engineering workplace. Students will produce a comprehensive report exhibiting their expertise in their chosen country and the field of engineering within.

BL01	Jane Fines	Seats (Total: 5)
	W 12:00pm - 12:50pm	PLS 1162
	Class time/details on ELMs	ONLINE

ENES478A Topics in Engineering Education

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Topics related to teaching engineering courses, particularly project-based courses. Topics can include learning styles, student development theory, multicultural issues in teaching, facilitating team experiences, assessment, and academic integrity.

Course restricted to QUEST students. Also offered as ENES478A. Credit granted for BMGT438A or ENES478A.

0101	Kylie King	Seats (Total: 20)
	Th 5:00pm - 5:50pm	VMH 1415

ENES481 Engineering Honors Seminar II

Credits: 1 Grading Method: Regular

Restriction: Must be in College of Engineering Honors; and junior standing or higher.

Introduction to engineering creativity and innovation in engineering. Application of methods of creativity to topics in communication, conducting research, and leadership.

0101	Richard McCuen	Seats (Total: 20)
	Tu 8:00am - 8:50am	EGR 1110

ENES489P Special Topics in Engineering; Hands-on Systems Engineering Projects

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in engineering.

This hands-on design projects course will expose senior-level undergraduates and graduate students from all areas of engineering to exciting career opportunities in the systems engineering field. Students will be introduced to the technical aspects of systems engineering practice through team-based project development and a systematic step-by-step procedure for product development that includes defining operations concepts, requirements gathering and organization, synthesis of models of system behavior and system structure, functional allocation to create system design alternatives, formal assessment of design alternatives through tradeoff analysis, and established approaches to testing and validation/verification. The students will be introduced to modern methods in Model-Based Systems Engineering, and industrial strength tools and environments for complex systems synthesis. Team projects may address problems from a wide variety of disciplines or cross-disciplines.

0101	John Baras	Seats (Total: 50)
	Th 3:30pm - 4:45pm	ANS 0408
	Tu 3:30pm - 6:30pm	AVW 1442 Lab

ENES489Q Special Topics in Engineering; Design and Innovation in Silicon Valley

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in engineering.

Prerequisite: BMGT190H or ENES190H. Restricted to QUEST Program students. Also offered as BMGT438G. Credit granted for BMGT438G or ENES489Q. Travel to Silicon Valley during Spring Break required of all class participants.

0101	Jeffrey Herrmann, Kylie King	Seats (Total: 15)
	Th 7:00pm - 8:15pm	VMH 1415
	Contact instructor or department for details.	

ENES490H Quest Consulting and Innovation Practicum

Credits: 4

Grading Method: Regular

General Education: DSSP

Prerequisite: ENES390 or BMGT390. Also offered as: BMGT490. Credit only granted for: BMGT490 or ENES490.

Final course in the QUEST Honors Fellows Program three-course curriculum. Based on a team-based consulting project with one of QUEST's professional partners. A project advisor and professional champion supervise each student team. Requires extensive out-of-class work.

Restricted to QUEST program students. Also offered as BMGT490H. Credit granted for BMGT490H or ENES490H.

0101	Kylie King, Jeffrey Herrmann	Seats (Total: 45)
	W 5:00pm - 7:40pm	VMH 1415
	Contact instructor or department for details.	

ENES491 Defining Consulting and Innovation Projects

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Also offered as: BMGT491. Credit only granted for: BMGT491, ENES491 or BMGT438D. Formerly: BMGT438D.

Cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.

0101	Kylie King	Seats (Total: 13)
	Tu 10:00am - 10:50am	VMH 1407
	F 10:00am - 11:40am	VMH 1407

ENES498E Special Topics in Entrepreneurship; Entrepreneurship in Chemical and Life Sciences

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

This entrepreneurship seminar and case study-based course will explore technology entrepreneurship with a focus on leadership, marketing, team-building, and management of new technology ventures and assumes baseline knowledge of entrepreneurship. Students will learn skills needed to succeed as a technology entrepreneur and how to apply best practices for planning, launching, and growing new companies. This course is a requirement of the Hinman CEOs program.

Also offered as CHEM498E and BIOE489E. Credit granted for CHEM498E or ENES498E or BIOE489E.

0101	Frederick Khachik, Ben Woodard, Martha Connolly	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 1108

ENES498R Special Topics in Entrepreneurship; Fearless Founders: New Venture Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This entrepreneurship seminar and case study-based course will explore technology entrepreneurship with a focus on leadership, marketing, team-building, and management of new technology ventures and assumes baseline knowledge of entrepreneurship. Students will learn skills needed to succeed as a technology entrepreneur and how to apply best practices for planning, launching, and growing new companies. This course is a requirement of the Hinman CEOs program.

Prerequisite: Permission of ENGR-A. James Clark School of Engineering. Also offered as BMGT468R. Credit granted for BMGT468R or ENES498R.

0101	Elana Fine	Seats (Total: 25)
	M 5:00pm - 7:30pm	VMH 1418

ENES601 Future Faculty Program Seminar I

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Restriction: Must be in the Clark School Future Faculty Program.

Introduction to and development of skills necessary to obtain and succeed in a university faculty position. Emphasis on technical writing and effective presentations. Discussion of research diversification, networking, ethics and professionalism.

0101	Amr Baz	Seats (Total: 25)
	Th 3:30pm - 4:45pm	EGR 3106

ENES603 Future Faculty Program Seminar III

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Restriction: Must be in the Clark School Future Faculty Program.

Developing a successful faculty research program. Establishing and maintaining a research group. Finding funding opportunities and writing grant proposals. Mentoring graduate students. Faculty position application process. Preparing research and teaching statements.

0101	Ichiro Takeuchi	Seats (Total: 25)
	Th 3:30pm - 4:30pm	KEB 1200

ENES604 **Future Faculty Program Teaching Practicum**

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: ENES602. Restriction: Must be a graduate student in the Clark School Future Faculty Program; and students for whom English is not the native language must pass the Maryland English Institute ITA Evaluation prior to enrolling in this course.

Graduate students will co-teach a course under supervision of a faculty mentor. Graduate students will be involved in all aspects of the course including development of syllabus, presenting lectures, writing and grading examinations, and evaluating the students in the course.

Restricted to the students in the Future Faculty program.

0101	Peter Kofinas	Seats (Total: 25)
	Contact instructor or department for details.	

ENES662 **Innovative Ideas and Concept Development**

Credits: 3 Grading Method: Regular,
Audit

Enables aspiring entrepreneurs to understand the content, methods, and models for new venture opportunity assessment and analysis. Focuses on how to identify and analyze entrepreneurial opportunities for technology-based ventures by first understanding the personal self and decision-making factors. Explores how to evaluate new venture opportunities and challenges within industries and markets.

PLM1	James Green	Seats (Total: 50)
	Meets February 29, 2016 - May 20, 2016	
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the MPTE Program.</i>	

ENES663 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENES663 or ENPM691.

Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

PLM1	Thomas Mierzwa	Seats (Total: 50)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE
<i>Restricted to students in the MPTE Program.</i>		

ENES666

Creative Design, Prototyping, and Testing

Credits: 3 Grading Method: Regular,
Audit

Transition from creative, innovative, design thinking methods to prototyping and concept testing of products and services. Learn how to translate ideas into marketable offerings to create real value for customers and the new venture. Emphasis is placed on an integrated and interdisciplinary approach to engineering design, concurrent engineering, design for manufacturing, industrial design, and the business of new product development. Topics include design methods, modeling and simulation, material and manufacturing process selection, platform and modular design, mass customization, planning and scheduling, and business issues, teamwork, group dynamics, creativity, and innovation.

PLM1	Cait von Schnetlage	Seats (Total: 50)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE
<i>Restricted to students in the MPTE Program.</i>		

ENES667

Market Development and Commercialization

Credits: 3 Grading Method: Regular,
Audit

Provides an orientation to key marketing concepts critical to marketing technology-based products and services. Learn to identify market opportunities, understand customer preferences, evaluate market acceptance, and devise the appropriate going to market strategies for the new venture.

PLM1	Gaurav Bhalla	Seats (Total: 50)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE
<i>Restricted to student in the MPTE Program.</i>		

ENES778**Special Topics in Entrepreneurship and Innovation; DC I-Corps: Tech Venture Builder**

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate entrepreneurship and innovation study. Topics include skills needed to succeed as a technology entrepreneur and how to apply best practices for planning, launching, and growing new companies.

BA03

Benjamin Solomon

Seats (Total: 25)

Meets March 21, 2016 - May 6, 2016

Contact instructor or department for details.

ENFP**Engineering, Fire Protection****Spring 2016****ENFP101****Hot Topics in Fire Protection Engineering**

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP 108 or ENFP 101. Formerly: ENFP108.

Current issues of importance to fire protection engineering. Topics focus on advances in basic fire science, computerized fire modeling, safety systems, human behavior and fire, fire toxicity, risk analysis, performance based fire safety, fire reconstruction, arson and evidence, voluntary fire safety standards, codes, and relations with other disciplines including architecture and the built environment, loss prevention and fire insurance.

0101

Nicole Hollywood, James Milke

Seats (Total: 20)

M 12:00pm - 12:50pm

JMP 1109

ENFP300**Fire Protection Fluid Mechanics**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246; and must have completed or be concurrently enrolled in PHYS260 and PHYS261. Restriction: Permission of ENGR-Fire Protection Engineering department.

Presents students with the fundamental properties of fluids and fluid movement. Both static and dynamic fluid problems will be considered with an emphasis on fire protection systems.

0101

Michael Gollner

Seats (Total: 30)

TuTh 9:30am - 10:45am

ITV 1100

Tu 5:00pm - 6:00pm

ITV 1100

Discussion

ENFP320**Fire Assessment Methods and Laboratory**

(Perm req)

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENFP312. Restriction: Must be in Engineering: Fire Protection program.

Experimental evaluation of ignition, flame spread, rate of heat release and smoke production of furnishings and interior finish materials.

0101	Peter Sunderland	Seats (Total: 12)
	TuTh 12:30pm - 1:45pm	ITV 1100
	W 1:00pm - 2:15pm	JMP 3229 Lab
0102	Peter Sunderland	Seats (Total: 12)
	TuTh 12:30pm - 1:45pm	ITV 1100
	W 2:00pm - 3:15pm	JMP 3229 Lab
0103	Peter Sunderland	Seats (Total: 12)
	TuTh 12:30pm - 1:45pm	ITV 1100
	W 3:00pm - 4:15pm	JMP 3229 Lab

ENFP350

Professional Development Seminar

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Restriction: Junior standing or higher. Credit only granted for: ENFP350 or ENFP450. Formerly: ENFP450.

An integrative, upper level professional development seminar covering topics such as engineering ethics, professional licensing, codes and standards, intellectual property, career selection and various contemporary issues in fire protection engineering.

0101	Stanislav Stoliarov	Seats (Total: 30)
	Tu 3:30pm - 4:45pm	ITV 1100

ENFP410

Advanced Fire Suppression

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENFP310 and ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP 410, ENFP489L, ENFP 653, or ENFP629C.

Analysis of application and theory of fire suppression systems. The key elements of fire suppression systems will be discussed along with how they interact for effective fire suppression design. Physical mechanisms for a variety of fire suppression approaches will be discussed including hose streams, sprinklers, water mist, foam, clean agents, and chemical agents.

0101	Kenneth Isman	Seats (Total: 35)
	TuTh 9:30am - 10:45am	CHE 2118

ENFP411 Risk-Informed Performance Based Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Senior standing; or permission of ENGR-Fire Protection Engineering department.

Appraisal and measurement of fire safety. Application of systems analysis, probability theory, engineering economy and risk management in the identification and synthesis of components of fire protection engineering. Methods for the development of criteria for the design, evaluation and assessment of fire safety or component hazards.

0101	James Milke, Kenneth Isman	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	PHY 1402
	Tu 6:15pm - 7:15pm	PHY 1402 Discussion

ENFP426 Computational Methods in Fire Protection

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENFP425. Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP426 or ENFP416.

Introduction to computer-based fire modeling: zone modeling and Computational Fluid Dynamics (CFD); documentation of input data, validation and verification tests.

0101	Randall McDermott	Seats (Total: 35)
	M 9:00am - 10:50am	EGR 0135
	W 9:00am - 9:50am	JMP 1109

ENFP429 Independent Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.

Senior standing. For ENFP majors only.

Contact department for information to register for this course.

ENFP440 Smoke Management and Fire Alarm Systems

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department.
Also offered as: ENFP627. Credit only granted for: ENFP440 or ENFP627.*

Analysis of hazard posed by smoke in buildings. Performance characteristics of smoke management systems. Review of analytical design aids. Functional analysis and design of fire detection and alerting systems. Examination and evaluation of code criteria, performance specifications and research.

0101	James Milke, Kenneth Isman	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	CHE 2118

ENFP489 Special Topics

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance to fire protection.

For ENFP majors only.

Contact department for information to register for this course.

ENFP489N Special Topics; Fire and Explosion Investigations

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance to fire protection.

0101	Noah Ryder	Seats (Total: 20)
	M 3:00pm - 4:50pm	ITV 1111
	W 3:00pm - 3:50pm	ITV 1111

ENFP489P Special Topics; Process Safety Management

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance to fire protection.

0101	David Moore, Adam Boussouf, David Heller M 5:30pm - 8:15pm	Seats (Total: 20) EGR 1102
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ENFP613 Human Response to Fire

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP413.

Fractional effective dose (FED) methods for predicting time to incapacitation and death of fires for use in fire safety engineering calculations. Physiology and toxicology of fire effluent components, decomposition chemistry of common materials, standard experimental approaches. Predictive models of material production rates. People movement characteristics related to building evacuation. Formulation and application of evacuation models. Human behavior factors affecting response of people to fire situations.

EF01	Jamie McAllister, Steven Gwynne Meets February 29, 2016 - May 20, 2016 Class time/details on ELMs	Seats (Total: 40) ONLINE
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ENFP619 Graduate Seminar

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

0101	Arnaud Trouve Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 10)
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ENFP627 Smoke Detection and Management

Credits: 3 Grading Method: Regular

Prerequisite: ENFP300. Also offered as: ENFP440. Credit only granted for: ENFP627 or ENFP440.

Analysis of hazard smoke. Response analysis of smoke detectors based on characteristics of detectors and properties of smoke. Performance characteristics and limitations of smoke management systems. Capabilities and limitations of analytical design aids.

Also offered as ENFP489M. Credit only granted for ENFP489M or ENFP627.

0101	James Milke, Kenneth Isman TuTh 11:00am - 12:15pm	Seats (Total: 10) CHE 2118
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ENFP629**Selected Topics**

(Perm req)

Credits: 3-6

Grading Method: Regular,
Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

Contact department for information to register for this course.

ENFP629N**Selected Topics**

Credits: 3-6

Grading Method: Regular,
Audit

Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.

0101	Noah Ryder	Seats (Total: 10)
	M 3:00pm - 4:50pm	ITV 1111
	W 3:00pm - 3:50pm	ITV 1111

ENFP649**Special Problems**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.

Prerequisite: permission of department.

Contact department for information to register for this course.

ENFP653**Advanced Fire Supression**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP410, ENFP489L, ENFP653, or ENFP629C. Formerly: ENFP629C.

Issues related to the suppression of fires and the design of fire suppression systems. Theoretical aspects of fire suppression and extinction are considered to provide the foundation for the practical design of different types of fire suppression systems. Focus on water-based and "clean agent" fire suppression systems, with emphasis on high challenge and special hazard applications. Systems using other agents are introduced, but are not addressed in detail.

EF01	Jason Sutula	Seats (Total: 40)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE

ENFP654 Fire Suppression Sprays

Credits: 3 Grading Method: Regular,
Audit

Recommended: ENFP300; and ENFP312.

Fire suppression mechanisms and goals are presented as a basis for fire suppression spray and nozzle designs. Basic spray formation theory is presented describing how sprays are generated by fire suppression nozzles (e.g. sprinklers). Methods and techniques are introduced for measuring and analyzing sprays based on their drop size distributions. Basic equations for evaluating the dispersion and coverage performance of sprays are presented.

0101	Andre Marshall	Seats (Total: 20)
TuTh 2:00pm - 3:15pm		EGR 1102

ENFP799 Master's Thesis Research

(Perm req) Credits: 1-6 Grading Method: Regular, Sat-Fail

Development and completion of Master's Thesis.

Contact department for information to register for this course.

ENGL English Spring 2016

FOR MORE DETAILED DESCRIPTIONS OF THE COURSES OFFERED, CLICK HERE TO VISIT THE ENGLISH DEPARTMENT WEBSITE English as a second language classes are listed under UMEI.

ENGL101 Academic Writing

Credits: 3 Grading Method: Regular General Education: FSAW

An introductory course in expository writing.

Students with a TSWE score of 33 or below must take ENGL 101A in place of ENGL 101. Students for whom English is a second language should consider taking ENGL 101X in place of ENGL 101.

0101	Amanda Allen	Seats (Total: 19)
MWF 9:00am - 9:50am		TWS 0221

0102	Emily Lyons MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1313
0103	Tamar Leroy MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1321
0104	Susanna Compton MWF 9:00am - 9:50am	Seats (Total: 19) TWS 1320
0105	Katherine Kipp MWF 9:00am - 9:50am	Seats (Total: 19) EDU 3233
0108	William Pittman MWF 9:00am - 9:50am	Seats (Total: 19) SQH 1111
0201	Katherine Kipp MWF 10:00am - 10:50am	Seats (Total: 19) TWS 1313
0203	Michael Kolakoski MWF 10:00am - 10:50am	Seats (Total: 19) HBK 0108
0204	Peter Witte MWF 10:00am - 10:50am	Seats (Total: 19) SQH 1107
0205	Jesse Brooks MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1115
0206	Audrey Farley MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0125
0207	Nathaniel Underland MWF 10:00am - 10:50am	Seats (Total: 19) ASY 3221
0301	Laura Williams MWF 11:00am - 11:50am	Seats (Total: 19) ASY 3217
0302	Katherine Kipp MWF 11:00am - 11:50am	Seats (Total: 19) KEY 0125
0303	Filipa Calado MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0214

0304	Brooke Feichtl MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1115
0305	Peter Witte MWF 11:00am - 11:50am	Seats (Total: 19) SQH 1101
0308	Michael Kolakoski MWF 11:00am - 11:50am	Seats (Total: 19) PLS 1176
0401	Matthew Smedley MWF 12:00pm - 12:50pm	Seats (Total: 19) KNI 1105
0402	Michael Kolakoski MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1168
0403	Michael Colson MWF 12:00pm - 12:50pm	Seats (Total: 19) SQH 1103
0404	Jesse Brooks MWF 12:00pm - 12:50pm	Seats (Total: 19) KEY 0120
0406	Lauren Albright MWF 12:00pm - 12:50pm	Seats (Total: 19) JMZ 1224
0501	Anthony Zitta MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0120
0502	Tara Kun MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0119
0503	Joshua Weiss MWF 1:00pm - 1:50pm	Seats (Total: 19) KEY 0124
0504	Lea Landrus MWF 1:00pm - 1:50pm	Seats (Total: 19) LEF 1220
0507	Michael Kolakoski MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1176
0508	Ariel Jicha MWF 1:00pm - 1:50pm	Seats (Total: 19) PLS 1168

0601	Emily Myrick MWF 2:00pm - 2:50pm	Seats (Total: 19) SKN 1112
0602	Emily Smith MWF 2:00pm - 2:50pm	Seats (Total: 19) SQH 1103
0603	Michael Colson MWF 2:00pm - 2:50pm	Seats (Total: 19) JMZ 2207
0605	Micaela Cameron MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0124
0607	Joshua Weiss MWF 2:00pm - 2:50pm	Seats (Total: 19) KEY 0123
1001	Norrell Edwards TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0205
1002	Heather McHale TuTh 8:00am - 9:15am	Seats (Total: 19) ARC 1125
1101	Kshiti Vaghela TuTh 9:30am - 10:45am	Seats (Total: 19) SQH 1123
1102	Amanda Fiore TuTh 9:30am - 10:45am	Seats (Total: 19) CHE 2145
1104	Hillary Roegelein TuTh 9:30am - 10:45am	Seats (Total: 19) SQH 1105
1105	Katherine Kipp TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 0118
1106	Lenaya Stewart TuTh 9:30am - 10:45am	Seats (Total: 19) KNI 1103
1107	Heather McHale TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1320
1109	Uchechi Okereke-Beshel TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 1313

1201	Kirk Greenwood TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1321
1202	Alexander Graves TuTh 11:00am - 12:15pm	Seats (Total: 19) SYM 0209
1203	Maura-Kate Costello TuTh 11:00am - 12:15pm	Seats (Total: 19) SKN 1112
1204	Uchechi Okereke-Beshel TuTh 11:00am - 12:15pm	Seats (Total: 19) ASY 3221
1205	Kshiti Vaghela TuTh 11:00am - 12:15pm	Seats (Total: 19) LEF 1221
1208	Rachel Penman TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1162
1301	Danielle Griffin TuTh 12:30pm - 1:45pm	Seats (Total: 19) KEY 1117
1302	Sara Faradji TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1320
1303	Heather McHale, John Kim TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1321
1304	Kshiti Vaghela TuTh 12:30pm - 1:45pm	Seats (Total: 19) SQH 1101
1305	Radford Skudrna TuTh 12:30pm - 1:45pm	Seats (Total: 19) KEY 0125
1306	Amanda Allen TuTh 12:30pm - 1:45pm	Seats (Total: 19) JMZ 0118
1401	Emilee Durand TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0201
1402	John Kim, Heather McHale TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0207

1403	Rachel Penman TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0205
1404	Amanda Allen TuTh 2:00pm - 3:15pm	Seats (Total: 19) JMZ 0120
1405	Radford Skudrna TuTh 2:00pm - 3:15pm	Seats (Total: 19) LEF 1222
1601	Radford Skudrna TuTh 5:00pm - 6:15pm	Seats (Total: 19) JMZ 1226
1701	Radford Skudrna TuTh 6:30pm - 7:45pm	Seats (Total: 19) JMZ 1215
BL01	Lyra Hilliard Tu 9:30am - 10:45am Th 9:30am - 10:45am <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) TWS 0205 ONLINE
BL02	Lyra Hilliard Tu 11:00am - 12:15pm Th 11:00am - 12:15pm <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) ARC 1101 ONLINE
BL03	Maggie Ray Th 9:30am - 10:45am Tu 9:30am - 10:45am <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) TWS 0205 ONLINE
BL04	Maggie Ray Th 11:00am - 12:15pm Tu 11:00am - 12:15pm <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) ARC 1101 ONLINE
BL05	Douglas Kern MF 12:00pm - 12:50pm Class time/details on ELMs <i>This class meets in person twice a week; the other class work is done online.</i>	Seats (Total: 19) ARC 1123 ONLINE

BL06	Douglas Kern MF 1:00pm - 1:50pm Class time/details on ELMs <i>This class meets in person twice a week; the other class work is done online.</i>	Seats (Total: 19) ARC 1123 ONLINE
BL07	Cherie Walsh Tu 9:30am - 10:45am Class time/details on ELMs <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) TWS 1321 ONLINE
BL08	Cherie Walsh Tu 11:00am - 12:15pm Class time/details on ELMs <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) TWS 1313 ONLINE
BL09	Thomas Earles Tu 12:30pm - 1:45pm Class time/details on ELMs <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) KEY 0119 ONLINE
BL10	Lyra Hilliard Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm <i>This class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) PLS 1168 ONLINE
BL11	David Brookshire MW 10:00am - 10:50am F 10:00am - 10:50am <i>Click here for more course information.</i>	Seats (Total: 19) TWS 0201 ONLINE
BL12	David Brookshire MW 11:00am - 11:50am F 11:00am - 11:50am <i>Click here for more course information.</i>	Seats (Total: 19) TWS 0201 ONLINE
BL13	David Brookshire MW 12:00pm - 12:50pm F 12:00pm - 12:50pm <i>Click here for more course information.</i>	Seats (Total: 19) TWS 0201 ONLINE

BL14	David Brookshire MW 1:00pm - 1:50pm F 1:00pm - 1:50pm <i>Click here for more course information.</i>	Seats (Total: 19) TWS 0201 ONLINE
BL16	Catherine Bayly MF 12:00pm - 12:50pm W 12:00pm - 12:50pm <i>Click here for more course information.</i>	Seats (Total: 19) ASY 3221 ONLINE
BL17	Catherine Bayly MF 1:00pm - 1:50pm W 1:00pm - 1:50pm <i>Click here for more course information.</i>	Seats (Total: 19) KNI 1105 ONLINE

ENGL101A Academic Writing

Credits: 3 Grading Method: Regular

General Education: FSAW

An introductory course in expository writing.

Students must take ENGL 101A rather than ENGL 101 if their TSWE score (a subscore of the SAT verbal) is 33 or below. Classes are limited to 15 students.

1703	Emily Perez TuTh 9:30am - 10:45am	Seats (Total: 15) TWS 1105
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ENGL101H Academic Writing

Credits: 3 Grading Method: Regular

General Education: FSAW

An introductory course in expository writing.

0408	Stephanie Allen MWF 12:00pm - 12:50pm	Seats (Total: 3) CCC 1105
0507	Elizabeth Miller MWF 1:00pm - 1:50pm	Seats (Total: 19) HBK 1112

ENGL101S Academic Writing

Credits: 3 Grading Method: Regular

General Education: FSAW

An introductory course in expository writing.

Restricted to College Park Scholars.

0109	Susan Pramschufer MWF 9:00am - 9:50am	Seats (Total: 19) CCC 1105
0209	Emily Lyons MWF 10:00am - 10:50am	Seats (Total: 19) CCC 1105
0309	Emily Lyons MWF 11:00am - 11:50am	Seats (Total: 19) CCC 1105
0409	Stephanie Allen MWF 12:00pm - 12:50pm	Seats (Total: 16) CCC 1105
0509	Stephanie Allen MWF 1:00pm - 1:50pm	Seats (Total: 19) CCC 1105
0609	Jesse Brooks MWF 2:00pm - 2:50pm	Seats (Total: 19) CCC 1105
1109	Katherine Stanutz TuTh 9:30am - 10:45am	Seats (Total: 19) CCC 1115
1209	Katherine Stanutz TuTh 11:00am - 12:15pm	Seats (Total: 19) CCC 1105
1309	Gary Slack TuTh 12:30pm - 1:45pm	Seats (Total: 19) CCC 1115
1409	Amanda Fiore TuTh 2:00pm - 3:15pm	Seats (Total: 19) CCC 1105

ENGL101X**Academic Writing**

Credits: 3

Grading Method: Regular

General Education: FSAW

An introductory course in expository writing.

Limited to students for whom English is a second language. To register for ENGL 101X, a student must first demonstrate competence in English. Proof of one of the following should be brought to advisors: 1) a minimum score of 100 on the iBT 2) a minimum score of 7 on the IELTS or 3) successful completion of UMEI 005, Advanced English as a Foreign Language, Semi-Intensive.

2003	Amanda Fiore TuTh 11:00am - 12:15pm	Seats (Total: 18) PLS 1164
2004	William Pittman MWF 10:00am - 10:50am	Seats (Total: 18) LEF 1171
2005	Lea Landrus MWF 12:00pm - 12:50pm	Seats (Total: 18) EDU 2102

ENGL202 **Inventing Western Literature: Renaissance to Modern**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Wide range of texts from the Renaissance to the 21st century. Themes and literary techniques in the evolution of Western literature. Print publication, industrialization, questioning of religious, political, intellectual, and cultural authority.

0101	Nathaniel Underland MWF 11:00am - 11:50am	Seats (Total: 30) TWS 1313
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ENGL206 **Shakespeare**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Credit only granted for: ENGL205, ENGL206, or ENGL289I. Formerly: ENGL205.

Shakespeare's poems, history plays, comedies, and tragedies as investigations into language use, governance, sexuality, ethics, and mortality.

Contact department for information to register for this course.

ENGL212 **English Literature: 1800 to the Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Surveys the major literary movements of the period, from Romantic to Victorian to Modern. Such authors as Wordsworth, Keats, Bronte, Tennyson, Browning, Yeats, Joyce, Woolf.

0101	Kayla Harr	Seats (Total: 30)
	MWF 10:00am - 10:50am	SQH 1105

ENGL222 American Literature: 1865 to Present

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Surveys American writing from the Civil War through the Cold War. Authors such as Clemens, Frost, Hurston, Bellow.

0101	Brian Davis	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	EDU 2119

ENGL234 African-American Literature and Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.

Also offered as AASP298L. Credit granted for AASP298I or ENGL234.

0101	Emily Perez	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TWS 0214
0102	Laura Williams	Seats (Total: 30)
	MWF 10:00am - 10:50am	TWS 1321

ENGL241 What the Novel Does

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

An exploration of what the novel does that cannot be done by film, by television, by cell-phone screens, by any stream of images, or by textual excerpts pulled up for a quick read. The different ways of the novel, with particular focus on the process of thinking and the developed consciousness. The novel as a machine to think with and an irreplaceable model of complex human thought. Study of how thought is presented in radically different ways in novels that cross lines of class, gender, chronology, and nationality.

0101	John Macintosh	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	TWS 1320

ENGL243 What is Poetry?

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

An exploration of arguably the most complex, profound, and ubiquitous expression of human experience. Study through close reading of significant forms and conventions of Western poetic tradition. Poetry's roots in oral and folk traditions and connections to popular song forms.

0301	Anne Price	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TWS 0221
0401	Amanda Allen	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 0205

ENGL244 The Play's the Thing

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Exploration of drama through a consideration of plot, narrative flow, analytical flow, staging, performance, manuscript and printing history, text and textual change over time, and interpretation. Plays will be approached as public attempts to understand what it means to be alive.

Contact department for information to register for this course.

ENGL245 Film Form and Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Restriction: Must not have completed FILM245. Also offered as: FILM245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Eric Zakim	Seats (Total: 22)
	TuTh 12:30pm - 1:20pm	TWS 0320
	Th 3:30pm - 6:00pm	TWS 0320 Lab
	F 10:00am - 10:50am	TWS 0236 Discussion

0102	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 12:00pm - 12:50pm	TWS 0236	Discussion
0103	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 1:00pm - 1:50pm	TWS 0236	Discussion
0104	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 2:00pm - 2:50pm	TWS 0236	Discussion
0105	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 9:00am - 9:50am	TWS 0236	Discussion

ENGL250

Reading Women Writing

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL, D General Education: DSHU, DVUP

Also offered as: WMST255. Credit only granted for: ENGL250 or WMST255.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Danielle Griffin	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	KEY 0125

ENGL255

Literature of Science and Technology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Credit only granted for: ENGL255 or ENGL278T. Formerly: ENGL278T.

Examines science and technology through the lens of British and American literature, primarily between 1800 and the present. Readings from early natural and experimental philosophers of the Scientific Revolution and Enlightenment. How literary works represent the ethics of science and technology; beneficial developments of science, and also heavy toll of industrialization. Writers studied may include Francis Bacon, Mary Shelley, Charles Darwin, H.G. Wells, Albert Einstein, Aldous Huxley, Richard Feynman, Philip K. Dick, Octavia Butler, Michael Frayn, and Tom Stoppard.

0201	Daniel Kason	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	KEY 0125

ENGL261 Recovering Oral Histories: Caribbean and Latin American Communities in the USA and Britain

Credits: 3 Grading Method: Regular

General Education: DSHU,
DSSP

Credit only granted for: ENGL261 or ENGL361.

Project-based course to record oral histories of Caribbean American and Latin American communities in the Washington area. Interview and oral history techniques; recording and videotaping oral histories; transcribing and writing stories as oral histories.

0101	Merle Collins	Seats (Total: 5)
	TuTh 9:30am - 10:45am	TWS 3250

ENGL262 Introduction to the Hebrew Bible/Old Testament

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

CORE: HL

General Education: DSHU

Also offered as: JWST262. Credit only granted for: JWST262, HEBR223, or ENGL262. Formerly: HEBR223.

An exploration of the origins and compositional history of biblical literature. Critical study of texts and socio-historical analysis of their background.

Contact department for information to register for this course.

ENGL265 Lesbian, Gay, Bisexual, and Transgender Literatures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

CORE: HL, D

General Education: DSHU,
DVUP

Restriction: Must not have completed LGBT265. Also offered as: LGBT265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	Nicholas Slaughter	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1105
0201	Virginia Butler	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	SQH 1105

ENGL269B Special Topics in Study Abroad II; Writing Workshop I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269C Special Topics in Study Abroad II; Writing Workshop II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269R Special Topics in Study Abroad II; Writing Rome

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL269X Special Topics in Study Abroad II; Theories of Text

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL271 Writing Poems and Stories: An Introductory Workshop

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Introduction to theory and practice of writing fiction and poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Ravenna Komar TuTh 11:00am - 12:15pm	Seats (Total: 10) KNI 1103
0102	Ravenna Komar TuTh 11:00am - 12:15pm	Seats (Total: 10) KNI 1103
0201	Quinn McCracken TuTh 2:00pm - 3:15pm	Seats (Total: 20) TWS 0236
0301	Kelsey Kerr MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 1107

ENGL272

Writing Fiction: A Beginning Workshop

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Introduction to theory and practice of writing fiction. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Sabrina Islam TuTh 11:00am - 12:15pm	Seats (Total: 20) TWS 1106
0201	Jacob Seveck TuTh 9:30am - 10:45am	Seats (Total: 20) TWS 1107
0301	Gu Qian MW 2:00pm - 3:15pm	Seats (Total: 20) TWS 0236
0401	Theresia Pratiwi TuTh 12:30pm - 1:45pm	Seats (Total: 20) KNI 1103

ENGL273

Writing Poetry: A Beginning Workshop

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Introduction to theory and practice of writing poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

0101	Noa Saunders	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 1105
0201	Christopher Philpot	Seats (Total: 20)
	MWF 11:00am - 11:50am	TWS 0221

ENGL274 Creative Writing Through The Eyes of African Americans: A Beginning Workshop

Credits: 3 Grading Method: Regular, General Education: DSSP
 Pass-Fail, Audit

Restriction: Must not have completed ENGL278C, AASP298W, ENGL271, ENGL274, ENGL294, ENGL294N, or AASP274. Also offered as: AASP274. Credit only granted for: ENGL274, ENGL278C, ENGL294, ENGL294N, AASP274 or AASP298W. Formerly: ENGL278C.

Introduction to theory and practice of writing fiction, drama and poetry, with an emphasis on African American literary models. Critical reading, exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.

Also offered as AASP298W. Credit granted for ENGL274 or AASP298W.

0101	Dorothy Phaire	Seats (Total: 20)
	TuTh 9:30am - 10:45am	NCC 0120

ENGL275 Writing to be Seen: Scriptwriting for Theatre, Film, and Television

Credits: 3 Grading Method: Regular, General Education: DSHU,
 Pass-Fail DSSP

Also offered as: ARHU275. Credit only granted for: ENGL278D, ENGL275, ARHU319B, or ARHU275. Formerly: ENGL278D; ARHU319B.

Introduction to theory and practice of scriptwriting with opportunity to read, view, evaluate, write, and revise texts meant to be performed for spectators. Practice writing for the stage, film and television, with emphasis on critical reading of textual and visual literary models. Theory and scholarship teaching opportunities and advantages of each format. Application of scholarship to analysis and critique of plays and texts successful across two different formats. Examination of selected scripts, performances, and film and television clips as models for students' own creative work. Frequent writing exercises and use of workshop format.

0101	Douglas Kern	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 1224

0102	Douglas Kern	Seats (Total: 5)
	MWF 10:00am - 10:50am	JMZ 1224
<i>This section is restricted to students in the Jimenez-Porter Writers' House.</i>		

ENGL280

The English Language

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

Introduction to the structure of English and its historical development with a focus on techniques of linguistic analysis. Major topics include the sound systems of English and its patterns of word formation and sentence structure, and the ways these have changed over time and vary around the world.

0101	Noa Saunders	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 0205

ENGL281

Standard English Grammar, Usage, and Diction

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The basic structure of written English, including parts of speech, sentence patterns, standard punctuation, diction, and usage.

0101	Kirk Greenwood	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TWS 1313

ENGL289I

Acting Human: Shakespeare and the Drama of Identity

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU, SCIS

What is the depth of Hamlet's mind and why are we still talking about it? Where does Lear's rage come from? What happened to the Macbeths? The minute we ask these questions, I'll suggest, we are in the grip of Shakespeare's ideas of dramatic realism. It's those ideas and their discovery that I want to explore in this general introduction to the playwright. Through the close reading of the plays, we'll examine the literary and dramatic techniques by which Shakespeare generates the fiction of a living, thinking person in the space of five acts, and how he gets us to participate in the making of that fiction. No previous experience with Shakespeare necessary, but please bring your enthusiasm. Our reading list includes Titus Andronicus, Hamlet, Othello, King Lear, Macbeth, Anthony and Cleopatra, The Winters Tale, and The Tempest. We will also spend some time thinking about Shakespeare on film, and about what the playwright can teach us about different media.

0101	Gerard Passannante MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0214	Discussion
0102	Gerard Passannante MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 TWS 1107	Discussion
0103	Gerard Passannante MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0214	Discussion
0104	Gerard Passannante MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 24) TWS 1100 TWS 0214	Discussion

ENGL289J

Special Topics in English; What is Justice: Literature and the Invention of Ethical Imagination

Credits: 3

Grading Method: Regular

General Education: DSHU,
SCIS

I-courses offered through the English Department.

Justice matters. We crave justice as much as we crave love, money, and power. In this course we will explore the power of fiction to shape our lived experiences and our societys understandings of equity and inequity, crime and punishment, pardon and torture, and ideas about We will learn to think critically about the various political, social, and cultural contexts of justice across time, obtain historical perspective on the ways we currently describe the just and the unjust, and consider the role of imagination in the formation of ethical citizens.

0101	Amanda Bailey TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 24) TWS 1100 TWS 0221	Discussion
0102	Amanda Bailey TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 24) TWS 1100 LEF 1171	Discussion
0103	Amanda Bailey TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 24) TWS 1100 TWS 0221	Discussion

0104	Amanda Bailey	Seats (Total: 24)	
	TuTh 12:30pm - 1:20pm	TWS 1100	
	F 1:00pm - 1:50pm	TWS 0221	Discussion

ENGL289M Special Topics in English; Literary Maryland

Credits: 3

Grading Method: Regular

General Education: DSHU,
DVUP, SCIS

I-courses offered through the English Department.

What does the literature of Maryland teach us about our state's past, present, and future? "Literary Maryland" explores this question by taking students on a tour of our state's prose, poetry, and drama from colonization to the present. In addition to reading fascinating writing and visiting interesting places, you'll learn how the Chesapeake was formed why nobody sings the entire national anthem; and what led Baltimore to to name its football team after a poem written by a Virginian. Literary Maryland is a fun and rewarding class. Its likely to be one of the most memorable you take in college.

0101	Randy Ontiveros	Seats (Total: 24)	
	MW 11:00am - 11:50am	TWS 1100	
	F 10:00am - 10:50am	TWS 1106	Discussion
0102	Randy Ontiveros	Seats (Total: 24)	
	MW 11:00am - 11:50am	TWS 1100	
	F 12:00pm - 12:50pm	TWS 1106	Discussion
0103	Randy Ontiveros	Seats (Total: 24)	
	MW 11:00am - 11:50am	TWS 1100	
	F 1:00pm - 1:50pm	TWS 1106	Discussion
0104	Randy Ontiveros	Seats (Total: 24)	
	MW 11:00am - 11:50am	TWS 1100	
	F 11:00am - 11:50am	TWS 1106	Discussion

ENGL289P Why Poetry Matters

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: HL

General Education: DSHU,
SCIS

Why does poetry matter? A wide-ranging course that introduces students to the formal fundamentals of poetry while exploring the role poetry plays in how we think about the human condition; what constitutes knowledge and wisdom, interior subjectivity and communal identity; and how this knowledge is to be used in confronting new challenges and the perennial questions: how to live with oneself, and as oneself; in time, and with others; here, where we reside; and elsewhere, where we imagine ourselves going.

0101	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 10:00am - 10:50am	TWS 0201	Discussion
0102	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 11:00am - 11:50am	TWS 0201	Discussion
0103	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 11:00am - 11:50am	TWS 0205	Discussion
0104	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 12:00pm - 12:50pm	TWS 0201	Discussion
0105	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 1:00pm - 1:50pm	TWS 0201	Discussion
0106	Michael Collier	Seats (Total: 22)	
	MW 12:00pm - 12:50pm	JMZ 0220	
	F 12:00pm - 12:50pm	TWS 0205	Discussion

ENGL291

Intermediate Writing

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU,
DSSP

Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.

Intermediate-level, writing-intensive course for students who have successfully satisfied the Fundamental Studies Academic Writing requirement but wish to hone skills in analyzing and producing rhetorically attuned, well-styled prose. Deeper study of rhetorical theory and its application to a wide variety of arguments and situations. Additional writing practice, techniques of revision, study of effect of stylistic choices. Topics may include argumentation theory, visual rhetoric, stylistic theory, and writing theory.

Contact department for information to register for this course.

ENGL292**Writing for Change**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Prerequisite: Permission of ARHU-English department. Recommended: ENGL101. Restriction: Requires application and references.

Service learning in collaboration with students at area high schools. Explores how writing can be a tool for social change. Participants serve as mentors, create a performance event concerning a pressing social issue, and compose reflections, literacy narratives, publicity materials, and a multimodal project. Focus on developing critical self-awareness.

Also offered as ENGL388C. Credit granted ENGL292 or ENGL388C.

0101	Justin Lohr	Seats (Total: 18)	
	MF 12:00pm - 12:50pm	TWS 3136	
	W 12:00pm - 1:50pm	TWS 3136	Lab

ENGL293**Writing in the Wireless World**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: DSHU,
DSSP

Recommended: ENGL101. Credit only granted for: ENGL278Z or ENGL293. Formerly: ENGL278Z.

A hands-on exploration of writing at the intersection of technology and rhetoric. Students will learn to read, analyze, and compose the kind of multimodal documents (combining text, image, and sound) that constitute communication in our digital world.

0101	Kathryn Kaczmarek	Seats (Total: 22)	
	TuTh 2:00pm - 3:15pm	TWS 0232	

ENGL295**Literature in a Wired World**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

Credit only granted for: ENGL278W or ENGL295. Formerly: ENGL278W.

An introduction to the changing nature of books, texts, and narrative in Information Age. Role of book in relation to other media, history of computers and writing, influence of computing on contemporary literature and culture, emerging forms of digital narrative and reading. Practical skills taught range from how to find digital literature and other texts online to using Web media to create literary works.

0101	Paul Cote	Seats (Total: 30)
	MWF 12:00pm - 12:50pm	WDS 0104

ENGL297 Introduction to Professional Writing

Credits: 3

Grading Method: Regular

General Education: DSSP

Prerequisite: ENGL 101.

Introduction to the rhetorical principles and professional practices of professional writing, particularly the research, writing, communication, analytical, and technological skills needed for the Professional Writing minor. How culture and technology relate to the work of professional writing; design principles and rhetorical moves; digital tools, research skills, and writing strategies of professional writers. Develops skills needed to publish a writing portfolio that showcases students' professional writing competencies and projects your professional writer identities.

0101	Danuta Hinc	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	TWS 1106

ENGL301 Critical Methods in the Study of Literature

Credits: 3

Grading Method: Regular

Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.

An introduction to the techniques of literary analysis and a brief survey of the most common approaches to literature.

0101	Christina Walter	Seats (Total: 18)
	MW 2:00pm - 3:15pm	TWS 3132
0301	Laura Rosenthal	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	TWS 3132
0401	Kim Coles	Seats (Total: 18)
	TuTh 11:00am - 12:15pm	TWS 3132
0501	David Wyatt	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	TWS 3132
0601	Vessela Valiavitcharska	Seats (Total: 18)
	TuTh 2:00pm - 3:15pm	TWS 3132

0701	Maggie Ray	Seats (Total: 18)
	TuTh 6:00pm - 7:15pm	TWS 3132

ENGL302 **Medieval Literature in Translation**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Surveys major works of English and continental Middle Ages. Readings may include romance, lyric and drama, Germanic epic, works of Dante, Chretien de Troyes, Jean de Meun, Christine de Pisan, Malory, English and continental mystics.

0101	Kellie Robertson	Seats (Total: 29)
	MWF 11:00am - 11:50am	TWS 0236

ENGL304 **The Major Works of Shakespeare**

Credits: 3 Grading Method: Regular, General Education: DSHU
Pass-Fail, Audit

Restriction: Must not have completed ENGL403 or ENGL404.

Representative early, middle, and later works, including comedies, tragedies, histories, and romances. Historical and cultural contexts.

0101	Maggie Ray	Seats (Total: 29)
	TuTh 3:30pm - 4:45pm	TWS 0205

ENGL310 **Medieval and Renaissance British Literature**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Detailed study of selected major medieval and Renaissance works written in England. Cultural attitudes and historical contexts. May include Beowulf, Anglo-Saxon lyric, drama, sonnets; works of women writers, Chaucer, Spenser, Sidney. Some readings in Middle English.

0101	Christopher Crane	Seats (Total: 29)
	MWF 9:00am - 9:50am	TWS 0201

ENGL311 **British Literature from 1600 to 1800**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The culture of seventeenth and eighteenth-century Britain seen through detailed study of selected major texts. Drama, poetry, political writings, and early novels by men and women. Authors may include Donne, Milton, Jonson, Behn, Swift, Pope, Montagu, and Wollstonecraft.

0101	Tita Chico	Seats (Total: 29)
	MWF 12:00pm - 12:50pm	TWS 0207

ENGL312 Romantic to Modern British Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Detailed study of selected major texts from the 19th and 20th centuries Transitions from Romanticism to Victorian age to Modernism. Historical, social, literary contexts. Issues such as rise of democracy; industrial revolution; the "woman question"; revolutions in literary form. Authors might include Wordsworth, Austen, Dickens, Arnold, T.S. Eliot, and Woolf.

0101	James Goodwin	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	TWS 1107

ENGL313 American Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A detailed study of selected major texts of American literature from th 17th century to the 20th century. Issues such as race, gender, and regionalism. Authors such as Franklin, Hawthorne, Dickinson, Hemingway, and Morrison.

0201	Peter Mallios	Seats (Total: 29)
	MW 2:00pm - 3:15pm	TWS 0214

ENGL317 African American Literature

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Consideration of key texts in African American literature that explore the experiences of people of African descent in America from the mid-nineteenth century to the contemporary moment. Relationship between literary texts, historical events and cultural formations. Examines a range of texts and genres (autobiography, slave narrative, travel narrative, poetry, essays, fiction), and their contribution to national literary tradition.

Also offered as AASP398C. Credit granted for AASP398C or ENGL317.

0101	Julius Fleming	Seats (Total: 29)
	MW 3:30pm - 4:45pm	TWS 0201

ENGL329A Special Topics in Film Studies; Cinema of Liberation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as CMLT398C. Credit granted for ENGL329A or CMLT398C. Repeatable to 9 credits if content differs. Studies in various periods and genres of film.

0201	Paul Cote	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	TWS 1107
	Tu 3:30pm - 6:00pm	TWS 1107 Lab

ENGL329B Special Topics in Film Studies; Blockbusters and Bestsellers: Italian Cinema and Literature of the 21st Century

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in various periods and genres of film.

Contact department for information to register for this course.

ENGL329E Special Topics in Film Studies; Hollywood in the Golden Age, 1930-1950

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as FILM359E. Credit granted for ENGL329E or FILM359E. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department

0101	Marianne Conroy	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	TWS 1107

ENGL329R Special Topics in Film Studies; The Cinema of Steven Spielberg

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in various periods and genres of film.

Also offered as FILM359Q. Credit granted for ENGL329R or FILM359Q. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department.

0101	Paul Cote	Seats (Total: 29)
	MW 10:00am - 11:50am	HBK 0302H

ENGL346 Twentieth Century Fiction

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major British, American, and other fiction writers of the twentieth century studied in the context of the broad global, intellectual, and artistic interests of the century.

0101	Lee Konstantinou	Seats (Total: 29)
	MW 3:30pm - 4:45pm	TWS 0221

ENGL349J Asian American Literatures; New World Arrivals: Literature of Asian American Migration and Diaspora

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Study of selected writers, particular themes, or genres in Asian American literatures.

Also offered as AAST398J. Credit granted for AAST398J or ENGL349J.

0101	Edlie Wong	Seats (Total: 29)
	TuTh 3:30pm - 4:45pm	TWS 0214

ENGL349T Asian American Literatures; Asian American Graphic Novels

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Study of selected writers, particular themes, or genres in Asian American literatures.

Also offered as AAST398T. Credit granted for AAST398T or ENGL349T.

0101	Lawrence-Minh Davis	Seats (Total: 30)
	M 2:00pm - 4:30pm	ASY 3215

ENGL352 Intermediate Fiction Workshop

(Perm req) Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL272; or permission of ARHU-English department. Credit only granted for: ENGL396 or ENGL352. Formerly: ENGL396.

A class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and the fiction of colleagues, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

0101	Kshiti Vaghela	Seats (Total: 15)
	M 3:30pm - 6:00pm	TWS 3248
0301	Thomas Earles	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	TWS 3248

ENGL353 Intermediate Poetry Workshop

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of A- in ENGL271; or minimum grade of A- in ENGL273; or permission of ARHU-English department. Credit only granted for: ENGL397 or ENGL353. Formerly: ENGL397.

A class in the making of poetry. Intensive discussion of students' own poems. Readings in both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, memorization, and attendance at poetry readings.

0101	Lindsay Bernal	Seats (Total: 15)
	Tu 3:30pm - 6:00pm	TWS 3252

ENGL359A Special Topics in Lesbian, Gay, and Bisexual Literatures; American Autobiographics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of selected writers or particular themes in Lesbian, Gay, and Bisexual Literatures.

Also offered as LGBT359A. Prerequisite: Two lower-level English courses, at least one in literature; or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Martha Nell Smith	Seats (Total: 29)
	MW 5:00pm - 6:15pm	TWS 0205

ENGL361 Recovering Oral Histories: Caribbean and Latin American Communities in the USA and Britain

Credits: 3

Grading Method: Regular

General Education: DSHU,
DSSP

Prerequisite: Must have completed at least one course in English or Latin American Studies. Credit only granted for: ENGL261 or ENGL361.

Project-based course to record oral histories of Caribbean American and Latin American communities in the Washington area. Interview and oral history techniques; recording and videotaping oral histories; transcribing and writing stories as oral histories.

Also offered as LASC348R. Credit granted for ENGL361 or LASC348R.

0101	Merle Collins	Seats (Total: 10)
	TuTh 9:30am - 10:45am	TWS 3250

ENGL362 Caribbean Literature in English

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit , D

General Education: DSHU,
DVUP

Also offered as ENGL362. Credit granted for ENGL362 or LASC348E. Political and literary traditions that intersect in the fiction, poetry, and drama written in English by Caribbean writers, primarily during the 20th century.

Additional Note: Also offered as LASC348E. Credit granted for ENGL362 or LASC348E.

0101	Merle Collins	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	TWS 0221

ENGL369G Special Topics in Study Abroad III; Adapting Literature to the Screen

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369H Special Topics in Study Abroad III; London Stage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369I Special Topics in Study Abroad III; Images of Italy in the U.K. and U.S.A.

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369L Special Topics in Study Abroad III; Angloamerican Travelers in Spain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Q Special Topics in Study Abroad III; Literature of the Shoah

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369X Special Topics in Study Abroad III; Literature in Liguria

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL369Z Special Topics in Study Abroad III; The London Stage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL370 Junior Honors Conference

(Perm req) Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Candidacy for honors in English.

Preparation for writing the senior honors project.

0101	Randy Ontiveros	Seats (Total: 20)
	W 3:30pm - 5:00pm	TWS 0224

ENGL379B Special Topics in Literature; Art, Architecture & Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Michael Olmert	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	TWS 0236

ENGL379D Special Topics in Literature; The Jewish Graphic Novel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as JWST319R and CMLT398R. Credit granted for JWST319R, ENGL379D, or CMLT398R. We will explore the boom in contemporary Jewish graphic novels from all over the world. What defines a Jewish graphic novel? What does a graphic novel accomplish that a conventional novel does not? Can a graphic novel tackle serious issues within the Jewish community, issues such as trauma , sexuality, gender relations, class, and nationalism? We will read the works of Art Spiegelman, Rutu Modan, Leela Corman, Harvey Pekar, and others.

0101	Sheila Jelen, Eric Zakim	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TWS 0236

ENGL379R Special Topics in Literature; The Jazz Paradigm

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as CMLT398D. Credit granted for CMLT398D or ENGL379R.

0101	Eugene Robinson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENGL379Z Special Topics in Literature; Women and Memory in Material and Digital Worlds

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as WMST498V. Credit granted for ENGL379Z or WMST498V.

0101	Jessica Enoch	Seats (Total: 29)
	MW 2:00pm - 3:15pm	TWS 0201

ENGL384**Concepts of Grammar**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Introduction to the basic units of grammatical description; motivation for and nature of constituent structure and syntactic categories; fundamental grammatical concepts employed in the teaching and learning of languages.

0101	Michael Israel	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	TWS 0205

ENGL388C**Writing Internship; Writing for Change**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail

General Education: DSSP

Field work in English.

For permission to register, contact hlinden@umd.edu. Also offered as ENGL292. Credit granted for ENGL292 or ENGL388C. Service learning in collaboration with students at area high schools. Explores how writing can be a tool for social change. Participants serve as mentors, create a performance event concerning a pressing social issue, and compose reflections, literacy narratives, publicity materials, and a multimodal project. Focus on developing critical self-awareness.

0101	Justin Lohr	Seats (Total: 18)
	MF 12:00pm - 12:50pm	TWS 3136
	W 12:00pm - 1:50pm	TWS 3136 Lab

ENGL388D**Writing Internship; Dickinson Electronic Archives**

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail

Field work in English.

Prerequisite: permission of the department. Contact Professor Martha Nell Smith, mnsmith@umd.edu

0101	Martha Nell Smith	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388M**Writing Internship; Maryland General Assembly Pre-Professional Writing Internship**

(Perm req)

Credits: 6

Grading Method: Regular

General Education: DSSP

Field work in English.

Also offered as HONR379W. Credit granted for ENGL388M or HONR379W.

0101	Thomas Lowderbaugh	Seats (Total: 15)
	Contact instructor or department for details.	
	<i>Students can only register for six credits.</i>	

ENGL388P Writing Internship; Pre-professional Writing Skills Internship

(Perm req)

Credits: 1-6

Grading Method: Regular

General Education: DSSP

Field work in English.

Prerequisite: permission of the department. Contact english@umd.edu.

0101	Karen Lewis	Seats (Total: 15)
	Contact instructor or department for details.	

ENGL388R Writing Internship; Romantic Circles

(Perm req)

Credits: 1-6

Grading Method: Regular

Field work in English.

Prerequisite: permission of the department. Contact Professor Neil Fraistat, fraistat@umd.edu.

0101	Neil Fraistat	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388T Writing Internship; MITH Internships

(Perm req)

Credits: 1-6

Grading Method: Regular

Field work in English.

Prerequisite: permission of the department. Contact Professor Neil Fraistat, fraistat@umd.edu

0101	Neil Fraistat	Seats (Total: 5)
	Contact instructor or department for details.	

ENGL388V Writing Internship; Undergraduate Teaching Assistants in Writing Programs

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail

General Education: DSSP

Field work in English.

Prerequisite: permission of department. Repeatable to 9 credits. Contact Lyra Hilliard, lyrahill@umd.edu
Students taking ENGL388V for the first time should register for section 0101 for 4 credits. When taking the course the course again in subsequent semesters, students should register for 0201 for 3 credits.

0101	Lyra Hilliard	Seats (Total: 16)
	W 5:00pm - 6:15pm	TWS 1105
0201	Lyra Hilliard	Seats (Total: 16)
	Contact instructor or department for details.	

ENGL388W Writing Internship; Writing Center Internship

(Perm req)

Credits: 1-6

Grading Method: Regular

General Education: DSSP

Field work in English.

Prerequisite: permission of the department. To apply, go to
<http://www.english.umd.edu/academics/writingcenter/internship>

0101	Douglas Kern, Leigh Ryan	Seats (Total: 20)
	M 3:30pm - 6:00pm	TWS 3252
	<i>Students should register for four credits.</i>	

ENGL390 Science Writing

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

Click here for more course information.

0201	Mary Shea	Seats (Total: 19)
	MWF 10:00am - 10:50am	TWS 0224
0301	Katherine Oneill	Seats (Total: 19)
	MWF 11:00am - 11:50am	TWS 1105
0401	Katherine Oneill	Seats (Total: 19)
	MWF 12:00pm - 12:50pm	TWS 1105

0501	Katherine Oneill MWF 1:00pm - 1:50pm	Seats (Total: 19) ASY 3217
1001	John Matthews TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0201
1101	Robin Allen-Klein TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 3132
1102	John Matthews TuTh 9:30am - 10:45am	Seats (Total: 19) TYD 1102
1201	Robin Allen-Klein TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 3136
1501	Nicholas Bujak TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1505	Nicholas Bujak TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 1105
1701	Richard Reynnells Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207
1801	Richard Reynnells W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0236
9001	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	John Matthews Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL390H

Science Writing

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.

Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students learn to accommodate scientific information to general audiences.

Restricted to students in the University or departmental Honors program.

0301	Mary Shea	Seats (Total: 19)
	MWF 11:00am - 11:50am	TWS 0224

ENGL391

Advanced Composition

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

[Click here for more information on professional writing courses.](#)

0301	Anna Szczepaniec-Bialas	Seats (Total: 19)
	MWF 11:00am - 11:50am	PLS 1158
0401	Anna Szczepaniec-Bialas	Seats (Total: 19)
	MWF 12:00pm - 12:50pm	HBK 0115
0402	Robert Crane	Seats (Total: 19)
	MWF 12:00pm - 12:50pm	HBK 0123
0601	Martha Thomas	Seats (Total: 19)
	MW 2:00pm - 3:15pm	TWS 1105
0701	Martha Thomas	Seats (Total: 19)
	MW 3:30pm - 4:45pm	TWS 0207
1101	Danuta Hinc	Seats (Total: 19)
	TuTh 9:30am - 10:45am	TWS 0232
1202	Danuta Hinc	Seats (Total: 19)
	TuTh 11:00am - 12:15pm	TWS 0232
1501	Danuta Hinc	Seats (Total: 19)
	TuTh 3:30pm - 4:45pm	TWS 0232

1701	Mark Fitzgerald Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230
1901	Mark Fitzgerald Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0230
9001	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Kara Pleasants Class time/details on ELMs	Seats (Total: 19) ONLINE
BL01	Ann Bracken Class time/details on ELMs W 2:00pm - 3:15pm <i>Class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) ONLINE TYD 0111
BL02	Melanie Faith Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) SQH 1111 ONLINE
BL03	Melanie Faith Tu 11:00am - 12:15pm Th 11:00am - 12:15pm	Seats (Total: 19) SQH 1103 ONLINE
BL04	Melanie Faith Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm	Seats (Total: 19) LEF 1221 ONLINE
BL05	Ann Bracken W 3:30pm - 4:45pm Class time/details on ELMs <i>Class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) TYD 0111 ONLINE
BL06	Catherine Bayly MF 10:00am - 10:50am Class time/details on ELMs <i>This class meets in person twice a week; the other class work is done online.</i>	Seats (Total: 19) TWS 1105 ONLINE

BL07	Catherine Bayly	Seats (Total: 19)
	MF 11:00am - 11:50am	TWS 1320
	Class time/details on ELMs	ONLINE
<i>This class meets in person twice a week; the other class work is done online.</i>		

ENGL391H **Advanced Composition**

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

Restricted to students in the University or departmental Honors program.

[Click here for more information on professional writing courses.](#)

0201	Mark Forrester	Seats (Total: 19)
	MWF 10:00am - 10:50am	TWS 0234

ENGL392 **Legal Writing**

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Conventions of legal writing and research. Students learn how to read and write about cases, statutes or other legislation; how to apply legal principles to fact scenarios; and how to present a written analysis for readers in the legal profession. Assignments may include the law-school application essay, case briefs, legal memos, and client letters.

[Click here for more information on professional writing courses.](#)

0201	Robin Earnest	Seats (Total: 19)
	MWF 10:00am - 10:50am	TWS 0230
0301	Robin Earnest	Seats (Total: 19)
	MWF 11:00am - 11:50am	TWS 0230
1101	Nicholas Hoffman, John Kim	Seats (Total: 19)
	TuTh 9:30am - 10:45am	TWS 0234

1201	William Schatz, Seema Vithlani TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0207
1301	William Schatz, Seema Vithlani TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0234
1601	Michael Winett M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1701	Michael Winett Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232
1801	Michael Winett W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0232

ENGL393

Technical Writing

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

[Click here for more information on professional writing courses.](#)

0101	Caleb Kriesberg MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0207
0102	Patrick Nelson MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0234
0201	David Miles MWF 10:00am - 10:50am	Seats (Total: 19) TWS 0205
0202	Peter Grybauskas, Nicholas Hoffman MWF 10:00am - 10:50am	Seats (Total: 19) SKN 1112
0301	Elliot Berger MWF 11:00am - 11:50am	Seats (Total: 19) SKN 1112
0302	Joan Mooney MWF 11:00am - 11:50am	Seats (Total: 19) TWS 0234

0303	Patrick Nelson MWF 11:00am - 11:50am	Seats (Total: 19) CSS 0201
0402	Nicholas Hoffman, Peter Grybauskas MWF 12:00pm - 12:50pm	Seats (Total: 19) ASY 3217
0501	Nicholas Hoffman, Peter Grybauskas MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 0234
0502	Joan Mooney MWF 1:00pm - 1:50pm	Seats (Total: 19) TWS 1105
1101	Caleb Kriesberg TuTh 9:30am - 10:45am	Seats (Total: 19) JMZ 1103
1102	Zein El-Amine TuTh 9:30am - 10:45am	Seats (Total: 19) KNI 1105
1201	Caleb Kriesberg TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 0234
1501	Daniel Saalfeld TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0224
1505	Daniel Saalfeld TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0232
1601	Amanda Olson M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201
1602	Candace Orsetti M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0224
1701	Amanda Olson Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 0201
1801	Kelly Cresap W 6:30pm - 9:10pm	Seats (Total: 19) TWS 0234
1901	Kelly Cresap Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 0214

3001	Alexandra Calloway F 9:00am - 11:40am	Seats (Total: 19) HBK 0103
9001	Daniel Saalfeld Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9005	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9007	Michelle Von Euw Class time/details on ELMs	Seats (Total: 19) ONLINE
9008	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9011	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE
9012	Andrew Delfino Class time/details on ELMs	Seats (Total: 19) ONLINE
BL01	Sarah Dammeyer Tu 8:00am - 9:15am Th 8:00am - 9:15am <i>Blended Learning courses combine face-to-face and online interactions.</i>	Seats (Total: 19) ONLINE TWS 0207

BL02	Sheila Lalwani Tu 12:30pm - 1:45pm Th 12:30pm - 1:45pm <i>Blended Learning courses combine face-to-face and online interactions.</i>	Seats (Total: 19) ONLINE KEY 0124
BL03	Sheila Lalwani Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm <i>Blended Learning courses combine face-to-face and online interactions.</i>	Seats (Total: 19) ONLINE KEY 0120
BL04	David Miles Th 12:30pm - 1:45pm Tu 12:30pm - 1:45pm <i>Blended Learning courses combine face-to-face and online interactions.</i>	Seats (Total: 19) ONLINE JMZ 3120
BL05	David Miles Tu 2:00pm - 3:15pm Th 2:00pm - 3:15pm <i>Blended Learning courses combine face-to-face and online interactions.</i>	Seats (Total: 19) ASY 3221 ONLINE
BL06	Sheila Lalwani Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) ONLINE SQH 1111
BL07	Sarah Dammeyer Tu 9:30am - 10:45am Th 9:30am - 10:45am	Seats (Total: 19) ONLINE ASY 3219
BL10	Pamela Orel M 2:00pm - 3:15pm Class time/details on ELMs <i>Class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) ASY 3219 ONLINE
BL12	Pamela Orel M 3:30pm - 4:45pm Class time/details on ELMs <i>Class meets in person once a week; the other class work is done online.</i>	Seats (Total: 19) ASY 3211 ONLINE

BL22	Pamela Orel	Seats (Total: 19)
	M 5:00pm - 6:15pm	TWS 0207
	Class time/details on ELMs	ONLINE
<i>Class meets in person once a week; the other class work is done online.</i>		
BL24	Sajeela Yaqub	Seats (Total: 19)
	Tu 5:00pm - 6:15pm	TWS 1106
	Th 5:00pm - 6:15pm	ONLINE
BL41	Pamela Orel	Seats (Total: 19)
	M 8:00pm - 9:15pm	TWS 1105
	Class time/details on ELMs	ONLINE
<i>Class meets in person once a week; the other class work is done online.</i>		

ENGL393H Technical Writing

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Restricted to students in the University or departmental Honors program.

Click here for more information on professional writing courses.

BL01	Christopher Crane	Seats (Total: 19)
	MW 10:00am - 10:50am	HBK 1108
	F 10:00am - 10:50am	ONLINE

ENGL393X Technical Writing

(Perm req)

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

The writing of technical papers and reports.

Restricted to students for whom English is a second language and who have a score below any of the following: SAT Verbal 400, TOEFL 575, CELT 250. Students who have received an "A" in ENGL 101 or its equivalent cannot register for ENGL 393X.

Click here for more information on professional writing courses.

1401	Daniel Saalfeld	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	TWS 0223

ENGL394

Business Writing

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Intensive practice in the forms of written communication common in the business world-letters, memos, short reports, and proposals. Principles of rhetoric and effective style.

[Click here for more information on professional writing courses.](#)

0101	Mary Turner	Seats (Total: 19)
	MWF 9:00am - 9:50am	TWS 1105
0202	Mary Turner	Seats (Total: 19)
	MWF 10:00am - 10:50am	TWS 0207
0302	Ceil Goldberg	Seats (Total: 19)
	M 11:00am - 11:50am	TWS 0232
	WF 11:00am - 11:50am	TWS 0232
0401	Ceil Goldberg	Seats (Total: 19)
	MWF 12:00pm - 12:50pm	TWS 0232
0402	Mary Turner	Seats (Total: 19)
	MWF 12:00pm - 12:50pm	TWS 0234
0501	Ceil Goldberg	Seats (Total: 19)
	MWF 1:00pm - 1:50pm	TWS 0232
0601	Ellen Blumner	Seats (Total: 19)
	MW 2:00pm - 3:15pm	TWS 0232
0602	James Mattson	Seats (Total: 19)
	MW 2:00pm - 3:15pm	TWS 0207
0702	Ellen Blumner	Seats (Total: 19)
	MW 3:30pm - 4:45pm	TWS 0232

0801	Ellen Blumner MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0232
0802	James Mattson MW 5:00pm - 6:15pm	Seats (Total: 19) WDS 1131
1103	Elizabeth McClure TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0207
1201	Elizabeth McClure TuTh 11:00am - 12:15pm	Seats (Total: 19) ARC 1127
1302	Elizabeth McClure TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 1105
1401	Thomas Lowderbaugh TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0230
1502	Elliot Berger TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0221
1506	Elliot Berger TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
1601	Carol Cron M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0236
1801	Jonathan Rick W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1105
9001	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
9002	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
9003	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE
9004	Kate Wilson Class time/details on ELMs	Seats (Total: 19) ONLINE

9005	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9006	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9009	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9010	Karen Angeline Class time/details on ELMs	Seats (Total: 19) ONLINE
9012	Daune O'Brien Class time/details on ELMs	Seats (Total: 19) ONLINE
BL01	Clare Parsons Th 8:00am - 9:15am Class time/details on ELMs	Seats (Total: 19) TWS 1106 ONLINE
BL02	Clare Parsons Th 9:30am - 10:45am Class time/details on ELMs	Seats (Total: 19) TWS 1321 ONLINE
BL03	Clare Parsons Th 11:00am - 12:15pm Class time/details on ELMs	Seats (Total: 19) TWS 1310 ONLINE
SG91	Holly Smith TuTh 8:00am - 9:15am <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 22) BLD2 2062
SG92	Holly Smith TuTh 9:30am - 10:45am <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 22) BLD2 2062

SG93	Katherine Robinson TuTh 11:00am - 12:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting and Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 22) BLD2 3062
SG94	Joshua Buursma TuTh 12:30pm - 1:45pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting and Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 22) BLD2 3022
SG95	Katherine Robinson TuTh 2:00pm - 3:15pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.</i>	Seats (Total: 22) BLD2 2052
SG98	Katherine Robinson TuTh 9:30am - 10:45am <i>This section is restrcited to COMM students enrolled at Shady Grove.</i>	Seats (Total: 22) BLD3 2203

ENGL395

Writing for Health Professions

Credits: 3

Grading Method: Regular

General Education: FSPW

Prerequisite: ENGL 101; or students who have taken courses with comparable content may contact the department. Restriction: Must have earned a minimum of 60 credits.

Focus on accommodating technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.

[Click here for more information on professional writing courses.](#)

0101	James Goodwin MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0214
0201	James Goodwin MWF 10:00am - 10:50am	Seats (Total: 19) KEY 0116
0301	Ruth Osorio MWF 11:00am - 11:50am	Seats (Total: 19) KNI 1105

0601	Michael Schmidt MW 2:00pm - 3:15pm	Seats (Total: 19) TWS 0224
0701	Michael Schmidt MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0230
1002	Joseph Angelella TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 0221
1101	Joseph Angelella TuTh 9:30am - 10:45am	Seats (Total: 19) LEF 1171
1201	Justin Lohr TuTh 11:00am - 12:15pm	Seats (Total: 19) TWS 1105
1301	Justin Lohr TuTh 12:30pm - 1:45pm	Seats (Total: 19) TWS 0207
1401	Joseph Angelella TuTh 2:00pm - 3:15pm	Seats (Total: 19) TWS 0234
1501	Kisa Lape TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0230
1505	Kisa Lape TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0230
SG91	Joseph Wappel TuTh 12:30pm - 1:45pm <i>Restricted to Public Health students at -Shady Grove.</i>	Seats (Total: 22) BLD3 3242
SG92	Joseph Wappel TuTh 2:00pm - 3:15pm <i>Restricted to Public Health students at Shady Grove.</i>	Seats (Total: 22) BLD3 2203
SG98	Joseph Wappel TuTh 11:00am - 12:15pm <i>Restricted to Biological Sciences majors at Shady Grove. All other students email usgbiosci@umd.edu for permission.</i>	Seats (Total: 22) BLD3 2203

ENGL398A**Topics in Professional Writing; Writing for the Arts**

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0701	Rebecca Ritzel MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1105
1001	Caroline Wilkins TuTh 8:00am - 9:15am	Seats (Total: 19) TWS 1107
1101	Caroline Wilkins TuTh 9:30am - 10:45am	Seats (Total: 19) TWS 0221
1801	Rebecca Ritzel W 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106

ENGL398B**Topics in Professional Writing; Writing for Social Entrepreneurship**

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0601	Eric Thiel MW 2:00pm - 3:15pm	Seats (Total: 19) ASY 3217
0701	Eric Thiel MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 1106
0801	Eric Thiel MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0236
1601	Mrim Boutla M 6:30pm - 9:10pm	Seats (Total: 19) TWS 0207

1701	Mrim Boutla Tu 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106
1901	Roxanne Clements Th 6:30pm - 9:10pm	Seats (Total: 19) TWS 1106

ENGL398C

Topics in Professional Writing; Writing Case Studies and Investigative Reports

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0701	Joshua Buursma MW 3:30pm - 4:45pm	Seats (Total: 19) TWS 0234
0801	Joshua Buursma MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0234
0901	Joshua Buursma MW 6:30pm - 7:45pm	Seats (Total: 19) TWS 0214
SG91	Joseph Wappel TuTh 9:30am - 10:45am	Seats (Total: 22) BLD3 3203
<i>Registration is restricted to CCJS-Shady Grove students.</i>		

ENGL398E

Topics in Professional Writing; Writing about Economics

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0801	Michael Winett MW 5:00pm - 6:15pm	Seats (Total: 19) TWS 0224
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ENGL398L Topics in Professional Writing; Scholarly Writing in the Humanities

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101. This course satisfies the professional writing requirement. An advanced composition class focusing on the norms and procedures of advanced academic writing.

0301	Mark Forrester, Daniella Berger	Seats (Total: 19)
	MWF 11:00am - 11:50am	TWS 0207

ENGL398N Topics in Professional Writing; Writing for Non-Profit Organizations

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0601	Elizabeth Fixsen	Seats (Total: 19)
	MW 2:00pm - 3:15pm	TWS 0230
1101	David Todd	Seats (Total: 19)
	TuTh 9:30am - 10:45am	TWS 0230
1201	David Todd	Seats (Total: 19)
	TuTh 11:00am - 12:15pm	TWS 0230
1301	Rebecca Holden, Allison Vilchinsky, Megan Connaughton	Seats (Total: 19)
	Tu 12:30pm - 1:45pm	TWS 0224
	Th 12:30pm - 1:45pm	TWS 0224
1302	David Todd	Seats (Total: 19)
	TuTh 12:30pm - 1:45pm	TWS 0230

1401	Rebecca Holden	Seats (Total: 19)
	TuTh 2:00pm - 3:15pm	TWS 0224

ENGL398R **Topics in Professional Writing; Writing Non-Fictional Narratives**

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

1001	Pamela Gerhardt	Seats (Total: 19)
	TuTh 8:00am - 9:15am	TWS 0224
1101	Pamela Gerhardt	Seats (Total: 19)
	TuTh 9:30am - 10:45am	TWS 0224
1102	Stewart Foehl	Seats (Total: 19)
	TuTh 9:30am - 10:45am	LEF 1222
1201	Pamela Gerhardt	Seats (Total: 19)
	TuTh 11:00am - 12:15pm	TWS 0224
1202	Stewart Foehl	Seats (Total: 19)
	TuTh 11:00am - 12:15pm	BPS 1232
1505	Pamela Gerhardt	Seats (Total: 19)
	TuTh 5:00pm - 6:15pm	TWS 0224

ENGL398V **Topics in Professional Writing; Writing about the Environment**

Credits: 3

Grading Method: Regular

General Education: FSPW

Professional writing courses that focus on the audiences, conventions, and genres of particular disciplines, professions, or organizations. Examples include writing for the arts, writing case studies and investigative reports, writing about economics, and writing for non-profit organizations.

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

0101	Mary Shea MWF 9:00am - 9:50am	Seats (Total: 19) TWS 0224
1301	Ann Mason TuTh 12:30pm - 1:45pm	Seats (Total: 19) ARC 1123
1501	Ann Mason TuTh 3:30pm - 4:45pm	Seats (Total: 19) TWS 0207
1505	Ann Mason TuTh 5:00pm - 6:15pm	Seats (Total: 19) TWS 0221
1507	Ann Mason TuTh 6:30pm - 7:45pm	Seats (Total: 19) TWS 0221

ENGL402
Chaucer

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Works read in Middle English. Readings may include Canterbury Tales, Troilus and Criseyde, dream visions, lyrics.

0101	Thomas Moser TuTh 9:30am - 10:45am	Seats (Total: 24) TWS 0201
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ENGL403
Shakespeare: The Early Works

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected works from the first half of Shakespeare's career. Generic issues of early histories, comedies, tragedies. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Theodore Leinwand TuTh 8:00am - 9:15am	Seats (Total: 24) TWS 0214
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ENGL404
Shakespeare: The Later Works

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Close study of selected plays from the second half of Shakespeare's career. Generic issues of later tragedies, later comedies, romances. Language, theme, dramatic technique, sources, and early modern English social-historical context.

0101	Theodore Leinwand	Seats (Total: 24)
	TuTh 11:00am - 12:15pm	TWS 0236

ENGL409C Study Abroad Special Topics IV; Shakespeare's Italian Plays

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409K Study Abroad Special Topics IV; A Moveable Feast: Writing about Food

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL409L Study Abroad Special Topics IV; Literature of London

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ENGL412 Literature of the Seventeenth Century, 1600-1660

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Works from early Stuart through Interregnum period. Major literary genres in historical contexts. Writers such as Donne, Jonson, Mary Wroth, Bacon, Browne, and Marvell.

0101	Gerard Passannante	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 0205

ENGL416 Literature of the Eighteenth Century, 1700-1750

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

British literary traditions, including the poetry of Pope, the prose of Swift, the correspondence of Montagu, the drama of Gay, and early novels by Defoe, Richardson, and Fielding.

0101	Laura Rosenthal	Seats (Total: 24)
	MW 2:00pm - 3:15pm	TWS 1106

ENGL425 Modern British Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Major Modernist writers in English prose and poetry since 1900. Such writers as Eliot, Larkin, Forster, Burgess, Durrell, Henry Green, Golding, Auden, Malcolm Lowry, Joyce, and Yeats.

0101	Brian Richardson	Seats (Total: 24)
	TuTh 3:30pm - 4:45pm	TWS 0236

ENGL428B Seminar in Language and Literature; Reading Victorian Literature in the Colonies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.

Restriction: Junior standing or higher; and must be in English Language and Literature program.
Repeatable to 9 credits if content differs. Topics will vary each semester. Provides a seminar experience in material and methodologies not otherwise available to the major.

0101	Jason Rudy	Seats (Total: 22)
	TuTh 12:30pm - 1:45pm	TWS 0221

ENGL429 Independent Research in English

(Perm req) Credits: 1-6 Grading Method: Regular

An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.

Prerequisite: ENGL301 and two English courses, excluding Fundamental Studies requirement.

Contact department for information to register for this course.

ENGL435 American Poetry: Beginning to the Present

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Selections of American poetry, from Bradstreet to contemporary free verse. Authors such as Whitman, Dickinson, Bishop, Hughes, Rich, and Frost.

Also offered as LGBT459M. Credit granted for ENGL435 or LGBT459M.

Contact department for information to register for this course.

ENGL437 Contemporary American Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Prose, poetry, drama of living American writers. Current cultural and social issues.

Contact department for information to register for this course.

ENGL439D Major American Writers after 1865; Erotics, Dickinson, and American Women Poets

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Two writers studied intensively each semester.

Also offered as LGBT448Y and WMST498Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 0214

ENGL439F Major American Writers after 1865; Faulkner and His Literary Heirs

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Two writers studied intensively each semester.

0101	David Wyatt	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 1106

ENGL440 The Novel in America to 1914

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Survey of the American novel to World War I. Cultural and philosophical contexts; technical developments in the genre. Authors such as Melville, Wells Brown, James, Sedgwick, Chopin.

0101	Robert Levine	Seats (Total: 24)
	TuTh 12:30pm - 1:45pm	TWS 0214

ENGL451 Renaissance Drama II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Drama in early decades of the seventeenth century. Playwrights include Jonson, Middleton, Marston, Webster, Beaumont and Fletcher. Tragedy, city comedy, tragicomedy, satire, masque. Pre-Civil War theatrical, political, and religious contexts.

Contact department for information to register for this course.

ENGL453 Literary Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two courses in literature; or permission of ARHU-English department.

An in-depth study of literary and critical theory.

0101	Orrin Wang	Seats (Total: 20)
	MWF 11:00am - 11:50am	TWS 3134

ENGL454 Modern Drama

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The roots of European Modernism and its manifestation in the drama of the twentieth century. Such playwrights as Beckett, Churchill, Stoppard, Wilde, Chekhov, Ibsen, Brecht, O'Neill, Sartre, Anouilh, Williams, and Shaw.

0101	Michael Olmert	Seats (Total: 24)
	TuTh 9:30am - 10:45am	TWS 0214

ENGL456 The Nineteenth-Century English Novel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Surveys major novels of the period. Attention to narrative form and realism; representations of gender and class; social contexts for reading, writing and publishing. Authors such as Austen, Bronte, Dickens, George Eliot, Trollope.

Contact department for information to register for this course.

ENGL462 Folksong and Ballad

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A cross-section of American folk and popular songs in their cultural contexts; artists from Bill Monroe to Robert Johnson.

0101	Barry Pearson	Seats (Total: 24)
	TuTh 11:00am - 12:15pm	TWS 0205

ENGL466 Arthurian Legend

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Development of Arthurian legend in English and continental literature from Middle Ages to twentieth century. All readings in modern English.

0101	Kellie Robertson	Seats (Total: 24)
	MWF 12:00pm - 12:50pm	TWS 1107

ENGL467 Computer and Text

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: One English course in literature; or permission of ARHU-English department.

Examines electronic literature and other aspects of digital textuality. Topics may include interactive fiction, hypertext, image and sound works, literary games and simulations. Emphasis on critical and theoretical approaches rather than design or programming.

0101	Matthew Kirschenbaum	Seats (Total: 24)
	MW 2:00pm - 3:15pm	TWS 0205

ENGL470 African-American Literature: The Beginning to 1910

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Beginnings of African-American literature including origins of literary expression in folk tales, songs, and spirituals; slave narratives; pamphlets, essays and oratory; and the emergence of poetry and fiction. Emphasis is on interaction between literary forms and the salient political issues of the day.

Also offered as AASP478B. Credit granted for AASP478B or ENGL470.

0101	Edlie Wong	Seats (Total: 24)
	TuTh 12:30pm - 1:45pm	TWS 0201

ENGL472 African-American Literature: 1945 to Present

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

Transformation of African-American literatures into modern and postmodern forms. Influenced by World War II and the Civil Rights and Black Power movements, this literature is characterized by conscious attempts to reconnect literary and folk forms, the emergence of women writers, and highly experimental fiction.

0101	Mary Washington	Seats (Total: 24)
	TuTh 2:00pm - 3:15pm	TWS 0221

ENGL475 Postmodern Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature; or permission of ARHU-English department.

The origins and ongoing development of postmodern literature. Aspects of the "postmodern condition," such as the collapse of identity, the erasure of cultural and aesthetic boundaries, and the dissolution of life into textuality. The novel and other genres and media.

0101	Lee Konstantinou	Seats (Total: 24)
	MW 5:00pm - 6:15pm	TWS 1106

ENGL478E Selected Topics in English and American Literature before 1800; The Story of Troy: An Ancient Tale Told and Retold

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two English courses in literature or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Linda Coleman	Seats (Total: 24)
	TuTh 11:00am - 12:15pm	TWS 0201

ENGL479L Selected Topics in English and American Literature after 1800; Race & Literary Experimentation in 21st Century African American Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Mary Washington	Seats (Total: 20)
	TuTh 5:00pm - 6:15pm	TWS 0214

ENGL479M Selected Topics in English and American Literature after 1800; Roots, Music and Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Barry Pearson	Seats (Total: 24)
	TuTh 3:30pm - 4:45pm	TWS 0201

ENGL482 History of the English Language

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENGL280 or LING200; or permission of ARHU-English department.

Origin and development of the English language.

Prerequisite: ENGL373 and ENGL370. Restriction: Must be in English Language and Literature program; and candidacy for honors in English.

Completion and presentation of the senior honors project.

Contact department for information to register for this course.

ENGL498

(Perm req)

Advanced Fiction Workshop; Advanced Fiction Workshop

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An advanced class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and to colleagues' fiction, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.

Prerequisite: ENGL396 or ENGL352; or permission of department.

0101	Tania James Tu 3:30pm - 6:00pm	Seats (Total: 15) TWS 3136
0201	Emily Mitchell Th 3:30pm - 6:00pm	Seats (Total: 15) TWS 3136
0301	Peter Levine M 3:30pm - 6:00pm	Seats (Total: 15) TWS 3132

ENGL499

(Perm req)

Advanced Poetry Workshop; Advanced Poetry Workshop

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An advanced class in the making of poetry. Intensive discussion of students' own poems. Readings include both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, and attendance at poetry readings.

Prerequisite: ENGL397 or ENGL353; or permission of department.

0101	William Schutt W 3:30pm - 6:00pm	Seats (Total: 15) TWS 3132
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ENGL601**Literary Research and Critical Contexts**

Credits: 3 Grading Method: Regular,
Audit

For majors only.

0101	Ralph Bauer	Seats (Total: 12)
	Th 3:30pm - 6:00pm	TWS 3248

ENGL602 Critical Theory and Literary Criticism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

An introduction to critical theory and literary criticism, with an overview of major movements (including formalism, structuralism and poststructuralism, Marxism, psychoanalysis, and feminism). Designed to help graduate students assess the various ways of approaching and writing about literature.

0101	Christina Walter	Seats (Total: 16)
	M 3:30pm - 6:00pm	TWS 3136

ENGL611 Approaches to College Composition

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ARHU-English department. Additional information: Required for graduate assistants (optional to other graduate students).

A seminar emphasizing rhetorical and linguistic foundations for the handling of a course in freshman composition.

0101	Chanon Adsanatham	Seats (Total: 18)
	Tu 6:30pm - 9:00pm	TWS 0224

ENGL623 Readings in Eighteenth-Century English Literature

Credits: 3 Grading Method: Regular,
Audit

0101	Tita Chico	Seats (Total: 16)
	W 3:30pm - 6:00pm	TWS 3250

ENGL625 Readings in English Victorian Literature

Credits: 3 Grading Method: Regular,
Audit

0101	Jason Rudy	Seats (Total: 14)
	Tu 3:30pm - 6:00pm	TWS 3250

ENGL628C **Readings in African American Literature**

Credits: 3 Grading Method: Regular,
Audit

0101	Julius Fleming	Seats (Total: 14)
	M 6:30pm - 9:00pm	TWS 3136

ENGL631 **Readings in 20th Century American Literature**

Credits: 3 Grading Method: Regular,
Audit

For majors only.

0101	Peter Mallios	Seats (Total: 16)
	M 3:30pm - 6:00pm	TWS 3250

ENGL688 **Poetry Workshop; Poetry Workshop**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Poetry workshop.

0101	Elizabeth Arnold	Seats (Total: 12)
	W 3:30pm - 6:00pm	TWS 3134
0201	Michael Collier	Seats (Total: 12)
	W 3:30pm - 6:00pm	TWS 3136

ENGL689 **Fiction Workshop; Fiction Workshop**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Fiction workshop.

0101	Howard Norman	Seats (Total: 12)
	W 3:30pm - 6:00pm	TWS 2123

0201	Emily Mitchell	Seats (Total: 12)
	W 3:30pm - 6:00pm	TWS 3252

ENGL699 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

ENGL702 Cultures of Theory

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: An introductory course in critical theory.

An exploration of the socio-historic, material, and cultural contexts of various theoretical practices and traditions.

0101	Oliver Gaycken, Luka Arsenjuk	Seats (Total: 11)
	W 6:30pm - 9:00pm	TWS 3248

ENGL708 Seminar in Rhetoric

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Topics in rhetoric: history of rhetorical theory, modern rhetorical theory, rhetorical interpretation, composition theory, rhetoric of social groups.

0101	Jane Donawerth	Seats (Total: 11)
	M 3:30pm - 6:00pm	TWS 3134

ENGL728 Seminar in Seventeenth-Century Literature

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

0101	Kim Coles	Seats (Total: 12)
	Th 3:30pm - 6:00pm	TWS 3134

ENGL749 Studies in Twentieth-Century Literature

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

0101	Brian Richardson	Seats (Total: 11)
	Tu 6:30pm - 9:00pm	TWS 3134

ENGL788 **Studies in Poetic Form; Form and Theory in Poetry**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

0101	Elizabeth Arnold	Seats (Total: 15)
	Th 3:30pm - 6:00pm	TWS 3250

ENGL789 **Form and Theory in Fiction**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

A variety of prose modes (mediations, psychological studies, reportage myths, collage, magic realism, satire, etc.). Some of the writers to be read include Kafka, Cather, Barth, Kundera, and Barthelme.

0101	Howard Norman	Seats (Total: 15)
	Th 3:30pm - 6:00pm	TWS 2123

ENGL798B **Critical Theory Colloquium**

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

An intensive advanced exploration of current problems and issues in critical theory.

0101	Christina Walter	Seats (Total: 15)
	TBA	TWS 3132

ENGL799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENGL809 **Academic Publishing Workshop**

(Perm req)

Credits: 1-2 Grading Method: Sat-Fail

A workshop for the preparation of articles of other critical writing for publication in academic journals or other professional venues.

0101	Kellie Robertson	Seats (Total: 12)
Contact instructor or department for details.		

ENGL878 Pedagogical Mentoring for Doctoral Students

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL879 Professional Mentoring for Doctoral Students

(Perm req)

Credits: 1-3 Grading Method: Sat-Fail

Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.

Contact department for information to register for this course.

ENGL898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.

Contact department for information to register for this course.

ENGL899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENMA Engineering, Materials Spring 2016

ENMA289A Bigger, Faster, Better: The Quest for Absolute Technology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

0101	Gottlieb Oehrlein	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	CHE 2108
	F 11:00am - 11:50am	EGR 2116 Discussion

0102	Gottlieb Oehrlein	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	CHE 2108	
	F 10:00am - 10:50am	CSI 3118	Discussion

ENMA300 Introduction to Materials Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department.
Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENME382. Credit only granted for: ENMA300 or ENME382.*

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	John Cumings	Seats (Total: 100)
	MWF 9:00am - 9:50am	JMP 3201
0201	Isabel Lloyd	Seats (Total: 100)
	TuTh 9:30am - 10:45am	CHE 2108
0401	Mohamad Al-Sheikhly	Seats (Total: 120)
	MWF 10:00am - 10:50am	CHE 2110

ENMA301 Materials for Emerging Technologies

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300; and permission of ENGR-Materials Science & Engineering department.

Five topical areas will be presented, each leading up to specific applications that have recently come to market or are currently experiencing heavy research and development. The goal of each module will be to introduce the basic materials science principles necessary to understand these new areas.

0101	Marina Leite	Seats (Total: 46)
	TuTh 9:30am - 10:45am	HBK 0115

ENMA312 Experimental Methods in Materials Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300. Corequisite: ENMA460. Restriction: Junior standing or higher.

Introduction to experimental methods in materials characterization; synthesis of colloidal nanoparticles; X-ray diffraction and light scattering; optical microscopy; thermal conductivity and expansion; electrical measurements; heat capacity; computational materials design.

0101	Luz Martinez-Miranda	Seats (Total: 12)	
	Tu 8:00am - 9:15am	EGR 0108	
	W 9:00am - 11:50am	KEB 1135	Lab
0102	Audaldo Ponce	Seats (Total: 12)	
	Tu 8:00am - 9:15am	KEB 1135	
	M 9:00am - 11:50am	KEB 1135	Lab

ENMA411

Materials for Energy II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in ENMA300; and permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA411 or ENMA489I. Formerly: ENMA489I.

Demonstrates the role of materials in solving one of the most critical socio-economic issues of our time, affordable and sustainable energy. Materials for Energy is a two-part course based on material functionality; however, they are independent and neither is a prerequisite for the other. Materials for Energy II will focus on electrical, optical, thermal, and mechanically functional materials for energy devices. Solar cells, solar fuel, solar thermal, energy efficient lighting, building energy, thermoelectric and wind energy will be covered.

0101	Liangbing Hu	Seats (Total: 20)	
	TuTh 12:30pm - 1:45pm	EGR 3114	

ENMA421

Design of Composites

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA421 or ENMA489A. Formerly: ENMA489A.

Fundamentals of design, processing and selection composite materials for structural applications will be covered. The topics include a review of all classes of materials, an in-depth analysis of micro and macro mechanical behavior including interactions at the two-phase interfaces, modeling of composite morphologies for optimal microstructures, material aspects, cost considerations, processing methods including consideration of chemical reactions and stability of the interfaces, and materials selection considerations.

0101	Sreeramamurthy Ankem	Seats (Total: 25)
	TuTh 9:30am - 10:45am	CHE 2136

ENMA425

Introduction to Biomaterials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department. Also offered as: BIOE453. Credit only granted for: BIOE453, ENMA489W, or ENMA425. Formerly: ENMA489W.

Examination of materials used in humans and other biological systems in terms of the relationships between structure, fundamental properties and functional behavior. Replacement materials such as implants, assistive devices such as insulin pumps and pacemakers, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds, and biocompatibility will be covered.

0101	Peter Kofinas	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CHE 2110
	M 10:00am - 10:50am	CHE 2145 Discussion
0102	Peter Kofinas	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CHE 2110
	M 4:00pm - 4:50pm	EGR 3114 Discussion
0103	Peter Kofinas	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	CHE 2110
	F 10:00am - 10:50am	JMZ 2123 Discussion

ENMA426

Reliability of Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA426 or ENMA489R. Formerly: ENMA489R.

Students are taught the basic degradation mechanisms of materials, through the understanding of the physics, chemistry, mechanics of such mechanisms. Mechanical failure mechanisms concentrate on fatigue, and creep. Chemical failure mechanisms emphasize corrosion and oxidation. Physical mechanisms such as diffusion, electromigration, defects and defect migration, surface trapping mechanisms, charge creation and migration are also included.

0101	Aristos Christou	Seats (Total: 38)
	TuTh 3:30pm - 4:45pm	EGR 0135

ENMA445 Liquid Crystals and Structured Soft Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246, PHYS270, and PHYS271. Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA445 or ENMA489L. Formerly: ENMA489L.

Elective course on the properties and behavior of liquid crystals and related soft materials, and their relationship to biomaterials and to applications.

0101	Luz Martinez-Miranda	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	EGR 2116

ENMA460 Physics of Solid Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in Engineering: Materials Science program. Also offered as: PHYS431. Credit only granted for: ENMA460 or PHYS431.

Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.

0101	Ichiro Takeuchi	Seats (Total: 20)
	MW 3:30pm - 4:45pm	EGR 0108

ENMA461 Thermodynamics of Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Junior standing or higher.

Thermodynamic aspects of materials; basic concepts and their application in design and processing of materials and systems. Topics include: energy, entropy, adiabatic and isothermal processes, internal and free energy, heat capacity, phase equilibria and surfaces and interfaces.

0101	Yifei Mo	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	EGR 0110

ENMA463 Macroprocessing of Materials

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Junior standing or higher.

Processing of modern, bulk engineering materials. Raw materials, forming, firing, finishing and joining. More emphasis on metals and ceramics than polymers.

0101	Isabel Lloyd	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	CHE 2145

ENMA465 Microprocessing Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA363, ENMA489B, or ENMA465. Formerly: ENMA363.

Micro and nanoscale processing of materials. Emphasis on thin film processing for advanced technologies.

0101	Gary Rubloff	Seats (Total: 55)
	MW 3:30pm - 4:45pm	CSS 2324

ENMA470 Materials Selection for Engineering Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENMA300; and permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA 470 or ENMA 489O. Formerly: ENMA 489O.

Students will learn about materials classes, properties, limitations and applications and the methodology of materials selection in engineering design.

0101	Timothy Foecke	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	CHE 2118

ENMA482 Introduction to Electron Microscopy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS142, PHYS122, or PHYS260. Credit only granted for: ENMA482 or ENMA489J. Formerly: ENMA489J.

An introduction of the basic principles of operation for modern electro microscopes. Details will be given on the construction of microscopes, their basic operation, and the types of questions that can be addressed with an electron microscope. Emphasis will be placed on a conceptual understanding of the underlying theories. Where appropriate, mathematical descriptions will be utilized. Upon completion of this course, students will be expected to have a basic understanding sufficient to give interpretations of microscopy images and to suggest the correct tool or approach for certain research studies.

0101	John Cumings	Seats (Total: 30)
	MW 11:00am - 12:15pm	CHE 2136

ENMA489W Selected Topics in Engineering Materials; Introduction to Solid State Ionics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in materials science and engineering.

0101	Eric Wachsman	Seats (Total: 6)
	TuTh 11:00am - 12:15pm	EGR 1110

ENMA489X Selected Topics in Engineering Materials; Physics, Material Chemistry and Device Applications at the Nanoscale

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in materials science and engineering.

Also offered as PHYS499M. Credit granted for PHYS499M or ENMA489X.

0101	Min Ouyang	Seats (Total: 10)
	Tu 2:00pm - 4:00pm	PHY 1201
	Tu 4:00pm - 4:50pm	PHY 1219

ENMA490 Materials Design

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Senior standing.

Capstone design course. Students work in teams on projects evaluating a society or industry based materials problem and then design and evaluate a strategy to minimize or eliminate the problem; includes written and oral presentations.

0101	Raymond Phaneuf	Seats (Total: 41)
	MW 1:00pm - 3:00pm	KEB 2111

ENMA499 Senior Laboratory Project

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.

0101	Lourdes Salamanca-Riba	Seats (Total: 5)
	Contact instructor or department for details.	

ENMA620 Polymer Physics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENMA471; or permission of instructor.

The thermodynamics, structure, morphology and properties of polymers. Developing an understanding of the relationships between theory and observed behavior in polymeric materials.

0101	Mohamad Al-Sheikhly	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	CHM 0119

ENMA621 Advanced Design Composite Materials

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA621 or ENMA698A. Formerly: ENMA698A.

Fundamentals of design, processing, and selection of composite materials for structural applications are covered. The topics include a review of all classes of engineering materials, an in-depth analysis of micro and macro mechanical behavior including interactions at the two-phase interfaces, modeling of composite morphologies for optimal microstructures, material aspects, cost considerations, processing methods- including consideration of chemical reactions, stability of the interfaces and material selection.

0101	Sreeramamurthy Ankem	Seats (Total: 10)
	TuTh 9:30am - 10:45am	CHE 2136

ENMA633**Advanced Characterization of Soft Matter Materials**

Credits: 3

Grading Method: Regular

Prerequisite: Permission of ENGR-Materials Science & Engineering department.

This course is focused on both the theories and experimental works of studying structure and dynamics of soft matter materials using scattering techniques (light, x-ray and neutron scattering). These scattering techniques can probe the structure from a few Angstrom to micrometer and the dynamics from picosecond to second, are thus widely used to reveal the structure-performance relationship of different materials. The course discusses the physics principles of these techniques and explains the details of general theories and commonly used models in characterizing soft matter materials such as polymer, protein, colloidal, thin film, and gel systems.

0101	Yun Liu	Seats (Total: 20)
	WF 5:00pm - 6:15pm	EGR 1102

ENMA645**Advanced Liquid Crystals and Other Monomeric Soft Matter Materials**

Credits: 3

Grading Method: Regular,
Audit*Credit only granted for: ENMA645 or ENMA698D. Formerly: ENMA698D.*

Elective course on the properties and behavior of liquid crystal and related soft materials, and their relationship to biomaterials and applications.

0101	Luz Martinez-Miranda	Seats (Total: 5)
	TuTh 12:30pm - 1:45pm	EGR 2116

ENMA661**Kinetics of Reactions in Materials**

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ENMA660.*

The theory of thermally activated processes in solids as applied to diffusion, nucleation and interface motion. Cooperative and diffusionless transformations. Applications selected from processes such as allotropic transformations, precipitation, martensite formation, solidification, ordering, and corrosion.

0101	Daniel Josell	Seats (Total: 28)
	TuTh 3:30pm - 4:45pm	CHE 2145

ENMA671**Defects in Materials**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of ENGR-Materials Science & Engineering department.

Fundamental aspects of point (electronic and atomic) defects, dislocations, and surfaces and interfaces in materials. Defect interactions, defect models, and effects of zero, one and two dimensional defects on material behavior.

0101	Lourdes Salamanca-Riba	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMP 1109

ENMA682

Electron Microscopy for Research

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA682 or ENMA698J. Formerly: ENMA698J.

An overview of the basic principles of operation for modern electron microscopes and how they are used in modern research. Details will be given on the construction of microscopes, their basic operation, and the types of questions that can be addressed with an electron microscope. Emphasis will be placed on a conceptual understanding of the underlying theories, and how to apply these to real-world research problems. Independent study into a specific area of electron microscopy will contribute to a term paper. Upon completion of this course, student will be expected to have a basic understanding sufficient to give interpretations of microscopy images and to suggest the correct tool or approach for certain research studies.

0101	John Cumings	Seats (Total: 10)
	MW 11:00am - 12:15pm	CHE 2136

ENMA688

Seminar in Materials Science and Engineering

Credits: 1

Grading Method: Regular,
Audit

Current research in materials science and engineering and related fields.

0101	Eric Wachsman, Aristos Christou	Seats (Total: 28)
	F 1:00pm - 2:30pm	CHE 2110

ENMA698

Special Problems in Materials Science and Engineering

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Contact department for information to register for this course.

Individual, supervised study in materials science and engineering.

0101	Eric Wachsman	Seats (Total: 14)
	TuTh 11:00am - 12:15pm	EGR 1110

This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.

0101	Ichiro Takeuchi	Seats (Total: 5)
Contact instructor or department for details.		

Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

(Perm req) Credits: 6 Grading Method: Regular
Contact department for information to register for this course.

ENME Engineering, Mechanical Spring 2016

Credits: 1 Grading Method: Sat-Fail

The Mechanical Engineering Curriculum, Career Paths. Research areas in the Mechanical Engineering Department. The Mechanical Engineering Profession.

0101	Kenneth Kiger	Seats (Total: 60)
	Th 12:30pm - 1:30pm	JMP 3201

ENME272 Introduction to Computer Aided Design

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES100 and MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME 414 or ENME272.

Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.

0101	Guangming Zhang	Seats (Total: 42)
	M 8:00am - 9:50am	KEB 2111
0201	Guangming Zhang	Seats (Total: 42)
	W 8:00am - 9:50am	KEB 2111
0301	Guangming Zhang	Seats (Total: 42)
	F 8:00am - 9:50am	KEB 2111
0401	Ariel Perez-Rosado	Seats (Total: 42)
	Th 8:00am - 9:50am	KEB 2111
0501	Ariel Perez-Rosado	Seats (Total: 42)
	Tu 8:00am - 9:50am	KEB 2111

ENME331 Fluid Mechanics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES232 and ENES221. Also offered as: BIOE331. Credit only granted for: BIOE331 or ENME331.

Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.

0101	Siddhartha Das, Chandrasekhar Thamire, Jean-Louis Balint MW 12:00pm - 12:50pm F 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	Lab
0102	Chandrasekhar Thamire, Jean-Louis Balint, Siddhartha Das MW 12:00pm - 12:50pm W 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	Lab
0103	Chandrasekhar Thamire, Siddhartha Das, Jean-Louis Balint MW 12:00pm - 12:50pm Th 1:00pm - 2:50pm	Seats (Total: 30) EGR 1202 KEB 1200	Lab
0104	Chandrasekhar Thamire, Siddhartha Das, Jean-Louis Balint MW 12:00pm - 12:50pm W 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 JMP 2202	Lab
0105	Chandrasekhar Thamire, Siddhartha Das, Jean-Louis Balint MW 12:00pm - 12:50pm Th 3:00pm - 4:50pm	Seats (Total: 30) EGR 1202 JMP 1109	Lab

ENME332

Transfer Processes

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME331.

The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.

0101	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Tu 1:00pm - 2:50pm	Seats (Total: 35) TYD 0130 JMP 1202	Lab
0102	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am W 1:00pm - 2:50pm	Seats (Total: 35) TYD 0130 EGR 0108	Lab

0103	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am Th 1:00pm - 2:50pm	Seats (Total: 35) TYD 0130 JMP 1202	Lab
0104	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am M 1:00pm - 2:50pm	Seats (Total: 35) TYD 0130 HBK 0105	Lab
0106	Amir Riaz, Marino diMarzo MW 9:00am - 9:50am F 1:00pm - 2:50pm	Seats (Total: 35) TYD 0130 PHY 1204	Lab

ENME350

Electronics and Instrumentation I

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: PHYS271 and PHYS270.

Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Jungho Kim, Xinan Liu MW 8:00am - 8:50am M 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0102	Jungho Kim, Xinan Liu MW 8:00am - 8:50am Tu 3:30pm - 5:20pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0103	Xinan Liu, Jungho Kim MW 8:00am - 8:50am W 3:30pm - 5:20pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0104	Xinan Liu, Jungho Kim MW 8:00am - 8:50am Th 3:30pm - 5:20pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab

ENME351

Electronics and Instrumentation II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS271, ENME350, and PHYS270.

Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.

0101	Don DeVoe, Steven Mitchell MW 10:00am - 10:50am M 3:30pm - 5:20pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0102	Steven Mitchell, Don DeVoe MW 10:00am - 10:50am Th 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0103	Don DeVoe, Steven Mitchell MW 10:00am - 10:50am W 1:00pm - 2:50pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0104	Don DeVoe, Steven Mitchell MW 10:00am - 10:50am W 6:00pm - 7:50pm	Seats (Total: 40) EGR 1202 EGR 3108	Lab
0301	Don DeVoe, Steven Mitchell MW 8:00am - 8:50am Tu 1:00pm - 2:50pm	Seats (Total: 40) KEB 1110 EGR 3108	Lab
0302	Don DeVoe, Steven Mitchell MW 8:00am - 8:50am F 1:00pm - 2:50pm	Seats (Total: 40) KEB 1110 EGR 3108	Lab

ENME361

Vibration, Controls and Optimization I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (ENME271 or MATH206). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Miao Yu TuTh 9:30am - 10:45am	Seats (Total: 120) JMP 3201
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0301	Amr Baz	Seats (Total: 75)
	TuTh 9:30am - 10:45am	MCB 1207

ENME371 Product Engineering and Manufacturing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES221; and (ENME392 or STAT400). Restriction: Must be in Engineering: Mechanical program.

Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process.

0201	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	W 4:00pm - 5:50pm	EGL 0101 Lab
0202	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	Th 3:00pm - 4:50pm	EGL 0101 Lab
0203	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	F 9:00am - 10:50am	EGL 0101 Lab
0204	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	Th 5:00pm - 6:50pm	EGL 0101 Lab
0205	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	Th 7:00pm - 8:50pm	EGL 0101 Lab
0206	Vincent Nguyen	Seats (Total: 30)
	MW 11:00am - 11:50am	EGR 1202
	W 2:00pm - 3:50pm	EGL 0101 Lab

ENME382 Introduction to Materials Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Also offered as: ENMA300. Credit only granted for: ENMA300 or ENME382.

Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.

0101	John Cumings	Seats (Total: 100)
	MWF 9:00am - 9:50am	JMP 3201
0201	Isabel Lloyd	Seats (Total: 100)
	TuTh 9:30am - 10:45am	CHE 2108
0401	Mohamad Al-Sheikhly	Seats (Total: 120)
	MWF 10:00am - 10:50am	CHE 2110

ENME392 Statistical Methods for Product and Processes Development

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH241.

Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.

0101	Johan Larsson	Seats (Total: 120)
	TuTh 11:00am - 12:15pm	JMP 3201
0201	Steven Mitchell	Seats (Total: 80)
	TuTh 11:00am - 12:15pm	KEB 1110

ENME400 Machine Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0101	Chandrasekhar Thamire	Seats (Total: 50)	
	TuTh 3:30pm - 4:20pm	PLS 1130	
	F 1:00pm - 3:00pm	CSI 1121	Discussion

ENME408 Selected Topics in Engineering Design; Automotive Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components and engineering systems. Use of computers in design of multivariable systems.

0101	Leonard Hamilton	Seats (Total: 39)	
	MW 5:00pm - 6:15pm	JMP 2202	

ENME421 Engineering Design Ideation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME371. Restriction: Junior standing or higher. Additional information: Ideally, this course should be taken prior to capstone design.

Engineering Design Methods is a technical elective for engineering students who wish to improve their ability to produce design ideas (i.e., the ideation process) for further development into conceptual ideas. Ideation is the creative, idea generation activity that happens at the beginning of the conceptual design process. Ideation methods are often built around creativity improving strategies and are often designed for individual use prior to presenting the results in a team setting.

0101	Linda Schmidt	Seats (Total: 40)	
	TuTh 12:30pm - 1:45pm	SPH 1303	

ENME424 Urban Microclimate and Energy

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME332. Recommended: ENME423. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME424 or ENME808I.

Urban microclimate from the perspective of transient heat and mass transfer using building energy simulations for building clusters as well as LEED building certification criteria. The focus is on understanding building energy consumption and environmental impacts from the individual building scale to a neighborhood scale.

0101	Jelena Srebric	Seats (Total: 20)
	Th 5:00pm - 7:40pm	PHY 1219

ENME427 **CSI Mechanical: Finding Reasons for Compromised Structural Integrity**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: ENES220; and ENME382. Restriction: Permission of ENGR-Mechanical Engineering department.

Understanding the causes of product failures including the political, societal, economic, environmental, and ethical impact of these failures, and the strategies to avoid, postpone, or mitigate them. Students will be encouraged to combine concepts from engineering, natural sciences, social sciences, and the humanities to address these complex issues. Basics of failure analysis, forensics, and reliability engineering and the scientific fundamentals underlying the most common types of failure. Issues of legal liability. Methods for monitoring the existing condition of a structure.

0101	Patrick McCluskey	Seats (Total: 45)
	MW 2:00pm - 3:15pm	EGR 0110

ENME431 **Nuclear Reactor Systems and Safety**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME430 and MATH246. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENNU465. Credit only granted for: ENNU465 and ENME431.

Engineering, material and thermal aspects of light water reactors, fast reactors, high temperature gas reactors, heavy water moderated reactors, breeder reactors, advanced reactors including GEN IV designs. Evolution of light water reactor safety and regulation in the US that has culminated in the current body of regulations.

0101	Robert Sanders	Seats (Total: 30)
	MW 2:00pm - 3:15pm	JMP 2121
NE01	Robert Sanders	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

ENME432 **Reactor and Radiation Measurements Laboratory**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME430 and MATH246. Restriction: Permission of ENGR-Mechanical Engineering department. Also offered as: ENNU440. Credit only granted for: ENNU440 or ENME432.

Basics concepts of nuclear radiation and radiation detectors including types of radiation, radioactive decay, and interactions of radiation with matter.

0101	Michael Coplan, Timothy Koeth	Seats (Total: 7)	
	Th 9:30am - 10:20am	SPH 0305	
	Th 2:00pm - 6:00pm	CHE 1306	Lab

ENME436 Renewable Energy

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME331. Restriction: Must be in a major within the ENGR-Mechanical Engineering department. Credit only granted for: ENME489K or ENME436. Formerly: ENME489K.

Fundamentals, design/analysis tools, and state of the art renewable energy technologies. Energy resources and global perspectives of current and future energy demand/consumption trends, followed by prime renewable energy technologies, including wind, solar, hydro, geothermal, and ocean thermal energy conversion. Economics of renewable energy, energy conservation opportunities, CO2 capture and storage, and thermal energy storage.

0101	Michael Ohadi	Seats (Total: 60)	
	W 3:30pm - 6:10pm	WDS 1114	

ENME461 Control Systems Laboratory

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME351 and ENME361. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENEE461 or ENME461.

Students will design, implement, and test controllers for a variety of systems. This will enhance their understanding of feedback control familiarize them with the characteristics and limitations of real control devices. Students will also complete a small project. This will entail writing a proposal, purchasing parts for their controller, building the system, testing it, and writing a final report describing what they have done.

Also offered as ENEE461. Credit offered for ENME461 or ENEE461.

0101	William Levine	Seats (Total: 14)	
	MW 9:00am - 9:50am	KEB 1110	
	M 2:00pm - 5:00pm	KEB 3209	Lab

0102	William Levine	Seats (Total: 14)	
	MW 9:00am - 9:50am	KEB 1110	
	W 2:00pm - 5:00pm	KEB 3209	Lab
0103	William Levine	Seats (Total: 14)	
	MW 9:00am - 9:50am	KEB 1110	
	F 9:00am - 12:00pm	KEB 3209	Lab

ENME462

Vibrations, Controls, and Optimization II

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME351 and ENME361.

Continuation of ENME 361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

0101	Monther Hasouneh, Jin-Oh Hahn	Seats (Total: 30)	
	MW 10:00am - 10:50am	HJP 0226	
	W 11:00am - 12:50pm	KEB 2107	Discussion
0102	Jin-Oh Hahn, Monther Hasouneh	Seats (Total: 42)	
	MW 10:00am - 10:50am	HJP 0226	
	Th 1:00pm - 2:50pm	KEB 2111	Discussion
0103	Monther Hasouneh, Jin-Oh Hahn	Seats (Total: 42)	
	MW 10:00am - 10:50am	HJP 0226	
	F 1:00pm - 2:50pm	KEB 2111	Discussion
0104	Monther Hasouneh, Jin-Oh Hahn	Seats (Total: 28)	
	MW 10:00am - 10:50am	HJP 0226	
	W 8:00am - 9:50am	EGR 0312	Discussion

ENME464

Cost Analysis for Engineers

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENME392; or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Mechanical Engineering department.

An introduction to the financial and cost analysis aspects of product engineering. Introduces key elements of traditional engineering economics including interest, present worth, depreciation, taxes, inflation, financial statement analysis, and return on investment. Provides an introduction to cost modeling as it applies to product manufacturing and support. Cost modeling topics will include: manufacturing cost analysis, life-cycle cost modeling (reliability and warranty), and cost of ownership.

0101	Peter Sandborn	Seats (Total: 70)
	TuTh 9:30am - 10:45am	SQH 1120

ENME465 Probability-Based Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH206; and ENME392. Restriction: Permission of ENGR-Mechanical Engineering department.

Review of probabilistic distributions, introduction to pseudo-random number generation, and algorithms to produce probability distributions using Monte Carlo simulation via Matlab and other approaches to best design probabilistic engineering problems.

0101	Steven Gabriel	Seats (Total: 30)
	TuTh 8:00am - 9:15am	KEB 2107

ENME466 Lean Six Sigma

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: ENME392, BMGT230, or STAT400; or students who have taken courses with comparable content may contact the department.

This course intends to provide in-depth understanding of Lean Six Sigma and its Define - Measure - Analyze - Improve - Control (DMAIC) Breakthrough Improvement Strategy. The emphasis is placed on the DMAIC process which is reinforced via application of semester long corporate projects and case study analysis.

0101	David Bigio	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	EGR 0110

ENME470 Finite Element Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.

Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.

0101	Guangming Zhang	Seats (Total: 42)
	MWF 12:00pm - 12:50pm	KEB 2111

ENME472 Integrated Product and Process Development

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: ENME371.

Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly.

0101	Mark Fuge, Ryan Sochol, David Bigio, Gary Pertmer	Seats (Total: 35)
	TuTh 11:00am - 11:50am	EGR 1202
	Tu 12:00pm - 1:50pm	EGL 0101 Discussion
0102	David Bigio, Gary Pertmer, Ryan Sochol, Mark Fuge	Seats (Total: 35)
	TuTh 11:00am - 11:50am	EGR 1202
	W 12:00pm - 1:50pm	EGL 0101 Discussion
0103	David Bigio, Ryan Sochol, Mark Fuge, Gary Pertmer	Seats (Total: 35)
	TuTh 11:00am - 11:50am	EGR 1202
	Th 12:00pm - 1:50pm	EGL 0101 Discussion
0104	David Bigio, Gary Pertmer, Ryan Sochol, Mark Fuge	Seats (Total: 35)
	TuTh 11:00am - 11:50am	EGR 1202
	F 11:00am - 12:50pm	EGL 0101 Discussion
0106	David Bigio, Gary Pertmer, Ryan Sochol, Mark Fuge	Seats (Total: 35)
	TuTh 11:00am - 11:50am	EGR 1202
	W 6:00pm - 7:50pm	EGL 0101 Discussion

ENME476 Microelectromechanical Systems (MEMS) I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Senior standing. Credit only granted for: ENME476 or ENME489F. Formerly: ENME489F.

Fundamentals of microelectromechanical systems (MEMS). Introduction to transducers and markets. MEMS fabrication processes and materials, including bulk micromachining, wet etching, dry etching, surface micromachining, sacrificial layers, film deposition, bonding, and non-traditional micromachining. Introduction to the relevant solid state physics, including crystal lattices, band structure, semiconductors, and doping. The laboratory covers safety, photolithography, profilometry, wet etching.

0101	Elisabeth Smela	Seats (Total: 15)
	MW 3:30pm - 4:45pm	EGR 2154

ENME488 Special Problems

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Limited to mechanical engineering seniors.

Contact department for information to register for this course.

ENME489 Special Topics in Mechanical Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Contact department for information to register for this course.

ENME489C Special Topics in Mechanical Engineering; Medical Robotics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Jaydev Desai	Seats (Total: 25)
	MW 11:00am - 12:15pm	EGR 0110

ENME489D Special Topics in Mechanical Engineering; Flight Dynamics and Simulation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENME489F.

0201	David Findlay	Seats (Total: 6)
	Tu 3:30pm - 6:10pm	JMP 2120

ENME489E Special Topics in Mechanical Engineering; Design for Sustainability

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Senthil Arul	Seats (Total: 45)
	MW 5:00pm - 6:15pm	EGR 0110

ENME489I Special Topics in Mechanical Engineering; Computational Dynamics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES221, ENME271, ENME331, and permission of department.

0101	J Perkins	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	EGR 0135

ENME489N Special Topics in Mechanical Engineering; Residential and Industrial Energy Audits

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Also offered as ENME808W. Credit granted for ENME489N or ENME808W.

0101	Amir Shooshtari	Seats (Total: 39)
	TuTh 3:30pm - 4:45pm	EGR 1104

ENME489O Special Topics in Mechanical Engineering; Micro/Nano Robotics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Permission of department required. Pre-req ENME 351

0101	Sarah Bergbreiter	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 2121

ENME489P Special Topics in Mechanical Engineering; Internal Combustion Engines

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Prerequisite: ENES232, ENME331, and permission of department. Co-requisite: ENME332.

0101	Chol-Bum Kweon	Seats (Total: 50)
	Tu 5:00pm - 7:40pm	EGR 1108

ENME489Q Special Topics in Mechanical Engineering; Managing for Innovation and Quality

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

Department permission required.

0101	George Dieter	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EGR 0135

ENME489T Special Topics in Mechanical Engineering; Nuclear Reactor Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Robert Sanders	Seats (Total: 15)
	MW 11:00am - 12:15pm	JMP 2121

ENME489W Special Topics in Mechanical Engineering; Pollution and Waste Technology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in mechanical engineering.

0101	Ashwani Gupta	Seats (Total: 46)
	Th 4:00pm - 6:40pm	ITV 1100

ENME607 Engineering Decision Making and Risk Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: ENRE671. Credit only granted for: ENME808X, ENRE671 or ENME607. Formerly: ENME 808X.

Individual decision-making, group decisionmaking, and organizations of decision-makers in the context of engineering design, project management, and other functions. Techniques for making better decisions, for understanding how decisions are related to each other, and for managing risk.

0101	Jeffrey Herrmann	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMP 2222
ER01	Jeffrey Herrmann	Seats (Total: 10)
	Contact instructor or department for details.	
HT01	Jeffrey Herrmann	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	Location: TBA
RE01	Jeffrey Herrmann	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Jeffrey Herrmann	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	Location: TBA
SM01	Jeffrey Herrmann	Seats (Total: 5)
	Contact instructor or department for details.	

ENME632 Advanced Convection Heat Transfer

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENNU615 or ENME632.

0101	Peter Bernard	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 2116

Credits: 3 Grading Method: Regular, Audit

0101	Jiazhen Ling, K Radermacher	Seats (Total: 25)
	Tu 4:00pm - 6:40pm	JMP 2222
ME01	Jiazhen Ling, K Radermacher	Seats (Total: 15)
	Tu 4:00pm - 6:40pm	ONLINE

Credits: 3 Grading Method: Regular, Audit

0101	B Balachandran	Seats (Total: 25)
	TuTh 3:30pm - 4:45pm	EGR 3114

Credits: 3 Grading Method: Regular,
Audit

Micromechanics of advanced composites with passive and active reinforcements, mathematical models and engineering implications, effective properties and damage mechanics, recent advances in "adaptive" or "smart" composites.

0101	Hugh Bruck TuTh 2:00pm - 3:15pm	Seats (Total: 25) JMP 2216
HT01	Hugh Bruck TuTh 2:00pm - 3:15pm	Seats (Total: 2) Location: TBA
PE01	Hugh Bruck TuTh 2:00pm - 3:15pm	Seats (Total: 10) ONLINE
SG01	Hugh Bruck TuTh 2:00pm - 3:15pm	Seats (Total: 2) Location: TBA
SM01	Hugh Bruck TuTh 2:00pm - 3:15pm	Seats (Total: 2) Location: TBA

ENME674

Finite Element Methods

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENME 674, ENAE652, ENPM652 or ENPM808F.

Theory and application of finite element methods for mechanical engineering problems such as stress analysis, thermal and fluid flow analysis, electro-magnetic field analysis and coupled boundary-value problems for "smart" or "adaptive" structure applications, stochastic finite element methods.

Also offered as ENAE488C and ENAE652. ENME674, ENAE488C or ENAE652.

0101	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 30) JMP 2222
HT01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 2) Location: TBA
SG01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 5) Location: TBA
SM01	Peter Chung MW 5:10pm - 6:25pm	Seats (Total: 5) Location: TBA

ENME712 Measurement, Instrumentation and Data Analysis for Thermo-Fluid Processes

Credits: 3 Grading Method: Regular,
 Audit

This course is designed to offer systemic coverage of the methodologies for measurement and data analysis of thermal and fluid processes at the graduate level. The course materials will cover three broad categories: (1) Fundamentals of thermal and fluid processes in single phase and multi phase flows as relates to this course; Measurement and Instrumentation techniques for measurement of basic quantities such as pressure, temperature, flow rate, heat flux, etc., and (3) Experimental Design and Planning, sources of errors in measurements, and uncertainty analysis.

0101	Kenneth Kiger	Seats (Total: 30)
	MW 11:00am - 12:15pm	JMP 2202

ENME742 Urban Microclimate and Energy

Credits: 3 Grading Method: Regular,
 Audit

Also offered as: ENME424. Credit only granted for: ENME808I, ENME424 or ENME742. Formerly: ENME808I.

Examines urban microclimate from the perspective of transient heat and mass transfer using building energy simulations for building clusters. The focus is on understanding building energy consumption and environmental impacts from the individual building scale (~100) to a neighborhood scale (~103). Emerging morphological properties of building clusters modulate transient convective and radiative heat transfer resulting in different local microclimatic conditions. At the neighborhood scale, these conditions are analyzed using heat and mass transfer simulations in building clusters to provide boundary conditions for transient building energy simulations. At the individual building scale, besides the energy consumption, this course examines connection between indoor and outdoor environments.

0101	Jelena Srebric	Seats (Total: 15)
	Th 5:00pm - 7:40pm	PHY 1219

ENME780 Mechanical Design of High Temperature and High Power Electronics

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: ENME382, ENME473, or ENME690.

This course will discuss issues related to silicon power device selection (IGBT, MCT, GTO, etc.), the characteristics of silicon device operation at temperatures greater than 125C, and the advantages of devices based on SOI and SiC. It will also discuss passive components and packaging materials selection for distributing and controlling power, focusing on the critical limitations to use of many passive components and packaging materials at elevated temperatures. In addition it will cover packaging techniques and analysis to minimize the temperature elevation caused by power dissipation. Finally, models for failure mechanisms in high temperature and high power electronics will be presented together with a discussion of design options to mitigate their occurrence.

0101	Patrick McCluskey	Seats (Total: 25)
	W 9:00am - 11:40am	CHM 0122

ENME799

Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ENME808

Advanced Topics in Mechanical Engineering

Credits: 3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

ENME808J

Advanced Topics in Mechanical Engineering; Coupled Phenomena in Mechanical Engineering

Credits: 2-3 Grading Method: Regular,
Audit

0101	Edward Magrab	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JUL 1105

ENME808K

Advanced Topics in Mechanical Engineering; Mems I

Credits: 2-3 Grading Method: Regular,
Audit

0101	Elisabeth Smela	Seats (Total: 15)
	MW 3:30pm - 4:45pm	EGR 2154

ENME808M

Advanced Topics in Mechanical Engineering; Medical Robotics

Credits: 3 Grading Method: Regular,
Audit

0101	Jaydev Desai	Seats (Total: 5)
	MW 11:00am - 12:15pm	EGR 0110

ENME808O Advanced Topics in Mechanical Engineering; Micro/Nano Robotics

Credits: 2-3 Grading Method: Regular,
Audit

0101	Sarah Bergbreiter	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMP 2121

ENME808V Advanced Topics in Mechanical Engineering; Hardware Degradation Mechanisms and Reliability Principles

Credits: 3 Grading Method: Regular,
Audit

0101	Abhijit Dasgupta	Seats (Total: 25)
	MW 12:30pm - 1:45pm	EGR 2116

ENME808W Advanced Topics in Mechanical Engineering; Advanced Energy Audits

Credits: 3 Grading Method: Regular,
Audit

Also offered as ENME489N. Credit granted for ENME489N or ENME808W.

0101	Amir Shooshtari	Seats (Total: 5)
	TuTh 3:30pm - 4:45pm	EGR 1104

ENME898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

ENPM Engineering, Professional Masters Spring 2016

ENPM601 Analog and Digital Communication Systems

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM600; or students who have taken courses with comparable content may contact the department. And permission of ENGR-CDL-Office of Advanced Engineering Education.

Analog modulation methods including AM, DSBSC-AM, SSB, and QAM; effects of noise in analog modulation systems. Digital communication methods for the infinite bandwidth additive white Gaussian noise channel: PAM, QAM, PSK, FSK modulation; optimum receivers using the MAP principle; phase-locked loops; error probabilities. Digital communication over bandlimited channels: intersymbol interference and Nyquist's criterion, adaptive equalizers, symbol clock and carrier recovery systems, trellis coding. Spread spectrum systems: direct sequence modulation and frequency hopping.

0101	Sasan Haghani	Seats (Total: 17)
	Th 7:00pm - 9:40pm	JMP 2121
HT01	Sasan Haghani	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Sasan Haghani	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	Sasan Haghani	Seats (Total: 5)
	Contact instructor or department for details.	

ENPM602

Data Networks

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.

Principles of network design, circuit switching and packet switching, OSI Reference Model; parity and cyclic redundancy check codes; retransmission request protocols; Markov chains and queuing models for delay analysis; multiaccess communication, local area networks, Ethernet and Token Ring standards; routing, flow control, internetworking; higher layer functions and protocols. Software tools for network simulation and performance analysis will be used.

0101	C Ravishankar	Seats (Total: 38)
	M 7:00pm - 9:40pm	JMP 2216
HT01	C Ravishankar	Seats (Total: 5)
	Contact instructor or department for details.	

SG01	C Ravishankar	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	C Ravishankar	Seats (Total: 5)
	Contact instructor or department for details.	

ENPM610

Digital VLSI Design

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed undergraduate courses in solid state devices and digital/analog circuit design.

VLSI design with emphasis on CMOS technology. Logic functions using CMOS switches; MOSFET characteristics; BiCMOS, dynamic logic and domino logic structures; PLA's, FPLA's, and gate arrays; layout via MAGIC, use of VHDL, IRSIM, and Spice; design rules and verification techniques; packaging techniques; chip design options: standard cells, sea-of-gates, full custom; design capture and verification tools; design of CMOS datapaths, memory, and control; possible fabrication via MOSIS.

0101	Manoj Franklin	Seats (Total: 25)
	W 7:00pm - 9:40pm	JMP 2217
HT01	Manoj Franklin	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA
SG01	Manoj Franklin	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA
SM01	Manoj Franklin	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA

ENPM612

System and Software Requirements

(Perm req) Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENPM611. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Focus will be placed on the theoretical and practical aspects of requirements development. Students will recognize the place of requirements, how to work with users, requirements methods and techniques, the various requirements types, how to set requirements development schedules, requirements evolution, how to model and prototype requirements, how to evaluate and manage risk in requirements, techniques to test requirements, how to manage the requirements process, and how to write an effective requirements document.

0101	Mikael Lindvall	Seats (Total: 17)
	Tu 7:00pm - 9:40pm	JMP 2120
HT01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	

ENPM614

Software Testing & Maintenance

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ENPM611. Restriction: Permission of ENGR-CDL-Office of Advanced Engineering Education.

Aspects of software development after coding is completed will be covered. Students will understand the various levels of testing, techniques for creating test data, how to manage test cases and scenarios, testing strategies and methods, testing batch, client/server, real-time, and Internet systems, and the development of an effective test plan. Software maintenance will include the creation of easily maintained software; preventive maintenance, corrective maintenance, and enhancements; configuration management practices; and assuring quality in software maintenance.

0101	Mikael Lindvall	Seats (Total: 17)
	Th 7:00pm - 9:40pm	JMP 2120
HT01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	Mikael Lindvall	Seats (Total: 5)
	Contact instructor or department for details.	

ENPM615**Embedded Systems**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Must have completed undergraduate courses in logic design, computer architecture, and programming. Credit only granted for: ENPM 808C or ENPM 615. Formerly: ENPM 808C.

Introduction to embedded systems design and evaluation: requirements, specification, architecture, hardware and software components, integration and performance evaluation. Topics include instruction sets, CPU, embedded computing platform, program design and analysis, operating systems, hardware accelerators, multiprocessors, networks, and system analysis. Real-life embedded systems design examples will be used throughout the course to illustrate these concepts.

0101	Gang Qu	Seats (Total: 25)
	M 4:00pm - 6:40pm	JMP 2216
HT01	Gang Qu	Seats (Total: 5)
	M 4:00pm - 6:40pm	Location: TBA
SG01	Gang Qu	Seats (Total: 5)
	M 4:00pm - 6:40pm	Location: TBA
SM01	Gang Qu	Seats (Total: 5)
	M 4:00pm - 6:40pm	Location: TBA

ENPM616**Wireless Communications: Concepts and Technologies**

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: ENPM 616 or ENPM 808T. Formerly: ENPM 808T.

Advanced topics in wireless communications for voice, data, and multimedia. Overview of current wireless systems and standards followed by characterizing the wireless channel, including path loss for different environments, random log-normal shadowing due to signal attenuation, and the flat and frequency-selective properties of multipath fading. Fundamental capacity limits of wireless channels and the characteristics of the capacity-achieving transmission strategies. Overview of wireless networks, including multiple and random access techniques, WLANs, cellular system design, and ad-hoc network design. Applications for these systems, including the evolution of cell phones and PDAs, smart homes and appliances, sensor networks, and automated highways and skyways.

0101	Seyed Bahari	Seats (Total: 25)
	Tu 7:00pm - 9:40pm	JMP 2216

HT01	Seyed Bahari Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Seyed Bahari Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Seyed Bahari Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM642

Systems Requirements, Design and Trade-Off Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENPM641 or ENSE621; or permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE622. Credit only granted for: ENPM642, ENSE602, or ENSE622.

This course builds on material covered in ENSE621/ENPM641, emphasizing the topics of requirements engineering, system-level design and trade-off analysis. Topics include: requirements engineering processes; representation and organization of requirements; implementation and applications of traceability; capabilities of commercial requirements; engineering software; system-level design; design structure matrices; principles of modular design; component- and interface-based design methods; multi-objective optimization-based design and tradeoff; approaches to system redesign in response to changes in requirements, reliability, trade-off analysis, and optimization-based design. Students will complete a project focussing on the development of requirements and their traceability to the system-level design of an engineering system.

Also offered as ENSE622. Credit granted for ENPM642 or ENSE622.

0101	Huan Xu M 7:00pm - 9:40pm	Seats (Total: 35) JMP 2222
HT01	Huan Xu M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Huan Xu M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Huan Xu M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM644

Human Factors in Systems Engineering

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE624. Credit only granted for: ENPM644 or ENSE624.

This course covers the general principles of human factors, or ergonomics as it is sometimes called. Human Factors (HF) is an interdisciplinary approach for dealing with issues related to people in systems. It focuses on consideration of the characteristics of human beings in the design of systems and devices of all kinds. It is concerned with the assignment of appropriate functions for humans and machines, whether the people serve as operators, maintainers, or users of the system or device. The goal of HF is to achieve compatibility in the design of interactive systems of people, machines, and environments to ensure their effectiveness, safety and ease of use.

Also offered as ENSE624. Credit granted for ENPM644 or ENSE624.

0101	Robert Beaton	Seats (Total: 40)
	Th 7:00pm - 9:40pm	JMP 3201
HT01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SG01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SM01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA

ENPM646

System Life Cycle Cost Analysis and Risk Management

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE626. Credit only granted for: ENPM646 or ENSE626.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Relevant analytic tools from probability and statistics and important managerial and organizational concepts. Extensive use is made of case studies from industry and government.

0101	Nidak Sumrean	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	JMP 2222

HT01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Nidak Sumrean Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM647

Systems Quality and Robustness Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Office of Advanced Engineering Education. Also offered as: ENSE627. Credit only granted for: ENPM647 or ENSE627.

This course covers systems engineering approaches for creating optimal and robust engineering systems and for quality assurance. It provides an overview of the important tools for quality analysis and quality management of engineering systems. These tools are commonly used in companies and organizations. Focus is placed on the Baldrige National Quality Program, ISO 9000 certification, six-sigma systems, and Deming total quality management to examine how high quality standards are sustained and customer requirements and satisfactions are ensured. The Taguchi method for robust analysis and design is covered and applied to case studies. Issues of flexible design over the system life cycle are addressed. Statistical process control, international standards for sampling, and design experimentation are also studied.

Also offered as ENSE627. Credit granted for ENPM647 or ENSE627.

0101	Guangming Zhang W 7:00pm - 9:40pm	Seats (Total: 30) JMP 2222
HT01	Guangming Zhang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Guangming Zhang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Guangming Zhang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM650

Solar Thermal Energy Systems

Credits: 3 Grading Method: Regular,
Audit

Covers a review of related fundamentals, including limitations imposed by thermodynamics, solar spectral characteristics, measurement, and analytical models to predict solar irradiance with respect to time, location and orientation. The course will then examine the characteristics of various components in solar thermal systems with particular emphasis on flat plate and concentrating collectors, fixed and tracking collector systems, heat exchangers and thermal storage to understand how they work and how their performance is influenced by their design. The course will then lead to an examination of systems and system performance, including system design, predicted energy savings and related economics. The course will introduce low temperature applications such as solar hot water, space heating and water distillation, as well as concentrating solar energy for solar thermo-chemical processes to produce hydrogen and solar power generation systems. A project of importance to the development of Solar Thermal Power Systems will be assigned.

0101	Brian Valentine Tu 7:00pm - 9:40pm	Seats (Total: 25) JMP 2121
HT01	Brian Valentine Contact instructor or department for details.	Seats (Total: 5)
ME01	Brian Valentine Class time/details on ELMs	Seats (Total: 25) ONLINE
SG01	Brian Valentine Contact instructor or department for details.	Seats (Total: 5)
SM01	Brian Valentine Contact instructor or department for details.	Seats (Total: 5)

ENPM651

Heat Transfer for Modern Application

Credits: 3 Grading Method: Regular,
Audit

The applications selected will vary widely: from cooling of electronics to prevention of fog and stalagmite formation in ice rinks. Multi-mode (i.e. simultaneous conduction, convection, radiation, mass transfer) problems will be emphasized. Lectures on basic principles, followed by assignments in which students formulate solutions and explain results.

0101	Zhiwei Huang, Yunho Hwang W 7:00pm - 9:40pm	Seats (Total: 25) JMP 2216
HT01	Zhiwei Huang, Yunho Hwang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ME01	Zhiwei Huang, Yunho Hwang Class time/details on ELMs	Seats (Total: 20) ONLINE
SG01	Zhiwei Huang, Yunho Hwang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Zhiwei Huang, Yunho Hwang W 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA

ENPM656
Energy Conversion II -- Mobile Power

Credits: 3 Grading Method: Regular,
Audit

Presents the scientific and engineering basis for design, manufacture, and operation of thermal conversion technologies utilized for mobility power generation. The interface between fuel combustion chemistry and generated power are addressed. The practical aspects of design and operation of various alternatives for power are compared. The impact of choices with regard to power and fuel alternatives as well as air pollution potential are also considered.

0101	Patrick Caton M 7:00pm - 9:40pm	Seats (Total: 25) JMP 2121
HT01	Patrick Caton Contact instructor or department for details.	Seats (Total: 5)
ME01	Patrick Caton Class time/details on ELMs	Seats (Total: 25) ONLINE
SG01	Patrick Caton Contact instructor or department for details.	Seats (Total: 5)
SM01	Patrick Caton Contact instructor or department for details.	Seats (Total: 5)

ENPM671
Advanced Mechanics of Materials

Credits: 3 Grading Method: Regular,
Audit

Formulate and quantitatively state the mechanical/physical responses of structural components and configurations subjected to loads, temperature, pre-strains etc. The two methods of analysis employed are the mechanics of materials approach and the theory of elasticity approach. Analysis and design of components of structural/machine systems as experienced in aeronautical, civil, mechanical and nuclear engineering.

0101	Gilad Sharon M 7:00pm - 9:40pm	Seats (Total: 17) JMP 2120
HT01	Gilad Sharon Contact instructor or department for details.	Seats (Total: 5)
SG01	Gilad Sharon Contact instructor or department for details.	Seats (Total: 5)
SM01	Gilad Sharon Contact instructor or department for details.	Seats (Total: 5)

ENPM672

Fundamentals for Thermal Systems

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Undergraduate engineering, physics or chemistry degree. Restriction: Permission of ENGR-Office of Advanced Engineering Education.

Included in this course is an introduction to thermodynamics, fluid mechanics and heat transfer. Emphasis is on gaining an understanding of the physical concepts through the solving of numerical problems associated with simple thermal fluid processes and cycles. Both ideal gases and multiphase fluids will be considered as the working fluids.

ME01	Kristen Hines Class time/details on ELMs	Seats (Total: 25) ONLINE
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ENPM686

Information Assurance

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENPM808E or ENPM686. Formerly: ENPM808E.

The first half of lectures provides an overview of cybersecurity. One third of these lectures focuses on the fundamentals of cybersecurity like authentication, access control, and security models. The second third focuses on the practice of cybersecurity using Unix and Windows NT as case studies. The last third is dedicated to security in distributed systems including network security, and World Wide Web security. The second half of the lectures focuses on the information assurance process. First, information assets are enumerated and classified. Second, the main vulnerabilities and threats are identified. Third, a risk assessment is conducted by considering the probability and impact of the undesired events. Finally, a risk management plan is developed that includes countermeasures involving mitigating, eliminating, accepting, or transferring the risks, and considers prevention, detection, and response.

CY01	Michel Cukier	Seats (Total: 30)
	Contact instructor or department for details.	

ENPM691 Programming in C for Cybersecurity Applications

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENEE150; or students who have taken courses with comparable content may contact the department.

Teaches the fundamentals of secure programming in C. An in depth discussion on various security vulnerabilities (e.g., buffer overflows) in C applications will be taught with hands-on demo of concepts during the class. Students will learn how a C program runs "under-the-hood". The course will teach nitty-gritty of C programs by analyzing at the assembly level. The course discusses best practices (e.g., coding standards) and design principles for secure programming so that security can be built-in during design time. In addition to assignments, students are required to present papers related to this course.

0101	Dharmalingam Ganesan	Seats (Total: 25)
	Th 7:00pm - 9:40pm	JMP 2216
CY01	Dharmalingam Ganesan	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
HT01	Dharmalingam Ganesan	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Dharmalingam Ganesan	Seats (Total: 5)
	Contact instructor or department for details.	
SM01	Dharmalingam Ganesan	Seats (Total: 5)
	Contact instructor or department for details.	

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ENPM691 and CMSC106; or permission of instructor. And permission of ENGR-CDL-Office of Advanced Engineering Education. Credit only granted for: ENPM695 or ENPM808B. Formerly: ENPM808B. Additional information: This course assumes knowledge of C programming and a previous operating systems class or knowledge in various issues such as process management, process synchronization, the critical section problem, CPU scheduling, memory management, secondary storage management.

Operating systems are the basic building block on which programmers build applications and on which security-minded professionals rely, whether they are monitoring activity on a computer, testing applications for security, or determining how malicious code affected their network. This course covers advanced topics in operating systems including process management and communication, remote procedure calls, memory management (including shared memory and virtual memory), checkpointing and recovery, file system, I/O subsystem and device management, distributed file systems and security. The course consists of reading and discussing research papers and includes a course project.

0101	Ido Dubrawsky W 4:00pm - 6:40pm	Seats (Total: 38) JMP 2216
CY01	Ido Dubrawsky W 4:00pm - 6:40pm	Seats (Total: 20) ONLINE
HT01	Ido Dubrawsky W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SG01	Ido Dubrawsky W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Ido Dubrawsky W 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENPM808 Advanced Topics in Engineering

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

0101	George Symros	Seats (Total: 10)
	Contact instructor or department for details.	

ENPM808C Advanced Topics in Engineering; Planning for Autonomous Robots

Credits: 3 Grading Method: Regular, Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

0101	Krishnanand Kaipa Narasimha M 7:00pm - 9:40pm	Seats (Total: 25) JMP 2217
FL01	Krishnanand Kaipa Narasimha M 7:00pm - 9:40pm <i>This section is for the NavAir Cohort Florida location students only.</i>	Seats (Total: 5) Location: TBA
HT01	Krishnanand Kaipa Narasimha M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	Krishnanand Kaipa Narasimha M 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	Krishnanand Kaipa Narasimha M 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA

ENPM808E Advanced Topics in Engineering; Managing Software Engineering Projects

Credits: 3 Grading Method: Regular,
Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

0101	Salman Qureshi	Seats (Total: 17)
	W 7:00pm - 9:40pm	JMP 2120
HT01	Salman Qureshi	Seats (Total: 5)
	Contact instructor or department for details.	
SG01	Salman Qureshi	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA
SM01	Salman Qureshi	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA

ENPM8080 **Advanced Topics in Engineering; Intrusion Detection: From Theory to Practice**

Credits: 3 Grading Method: Regular, Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

CY01	Assane Gueye	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENPM808P **Advanced Topics in Engineering; Manufacturing and Automation**

Credits: 3 Grading Method: Regular, Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

0101	Mahesh Mani	Seats (Total: 25)
	Th 7:00pm - 9:40pm	JMP 2217
FL01	Mahesh Mani	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
	<i>This section is for the NavAir Cohort Florida location students only.</i>	
HT01	Mahesh Mani	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SG01	Mahesh Mani	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SM01	Mahesh Mani	Seats (Total: 10)
	Th 7:00pm - 9:40pm	Location: TBA

ENPM808T Advanced Topics in Engineering; Perception for Autonomous Robots

Credits: 3 Grading Method: Regular, Audit

*Advanced topics selected by the faculty for students in the professional master of engineering program.
May be taken for repeated credit when identified by topic title.*

0101	John Aloimonos	Seats (Total: 25)
	Tu 7:00pm - 9:40pm	JMP 3201

FL01	John Aloimonos Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA <i>This section is for the NavAir Cohort Florida location students only.</i>
HT01	John Aloimonos Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SG01	John Aloimonos Tu 7:00pm - 9:40pm	Seats (Total: 5) Location: TBA
SM01	John Aloimonos Tu 7:00pm - 9:40pm	Seats (Total: 10) Location: TBA

ENPP Engineering and Public Policy Spring 2016

ENPP611 MEPP Scholarly Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must have Practicum Proposal approved by MEPP.

The scholarly practicum internship for MEPP students is intended to educate students in how engineering and public policy is practised in their MEPP specialization. The internship must last a minimum of 400 hours, and must be completed by the submission and approval of progress and completion reports. By undertaking the internship midway through the student's MEPP studies, the student can make use of MEPP studies completed, and use the experience in selection of subsequent MEPP course to maximize the educational opportunities of the MEPP program.

0101	Steven Gabriel Contact instructor or department for details.	Seats (Total: 10)
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ENRE Reliability Engineering Spring 2016

ENRE447 Fundamentals of Reliability Engineering

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ENRE445 or ENRE447. Formerly: ENRE445.

Topics covered include: fundamental understanding of how things fail, probabilistic models to represent failure phenomena, life-models for non-repairable items, reliability data collection and analysis, software reliability models, and human reliability models.

0101	Mohammad Modarres M 3:30pm - 6:00pm	Seats (Total: 35) JMP 2121
ER01	Mohammad Modarres M 3:30pm - 6:00pm	Seats (Total: 7) TWS 1320
HT01	Mohammad Modarres M 3:30pm - 6:00pm	Seats (Total: 2) Location: TBA
RE01	Mohammad Modarres Class time/details on ELMs	Seats (Total: 5) ONLINE
SG01	Mohammad Modarres M 3:30pm - 6:00pm	Seats (Total: 2) Location: TBA
SM01	Mohammad Modarres M 3:30pm - 6:00pm	Seats (Total: 2) Location: TBA

ENRE489
Special Topics in Reliability Engineering

(Perm req)

Credits: 3

 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in reliability engineering.
Contact department for information to register for this course.

ENRE489G
Special Topics in Reliability Engineering; Fundamental Reliability Analysis

Credits: 3

 Grading Method: Regular,
Pass-Fail, Audit

Selected topics of current importance in reliability engineering.
Contact department for information to register for this course.

ENRE620
Mathematical Techniques of Reliability Engineering

Credits: 3

 Grading Method: Regular,
Audit

Also offered as: ENNU620.

Basic probability and statistics (required for ENRE 600 and ENRE 602). Application of selected mathematical techniques to the analysis and solution of reliability engineering problems. Applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to a wide range of reliability related problems.

Contact department for information to register for this course.

ENRE640 Collection and Analysis of Reliability Data

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: ENRE602.

Basic life model concepts. Probabilistic life models, for components with both time independent and time dependent loads. Data analysis, parametric and nonparametric estimation of basic time-to-failure distributions. Data analysis for systems. Accelerated life models. Repairable systems modeling.

0101	Reza Kazemi-Tabriz, Vasiliy Krivtsov F 9:00am - 11:40am	Seats (Total: 20) JMP 2222
ER01	Vasiliy Krivtsov, Reza Kazemi-Tabriz F 9:00am - 11:40am	Seats (Total: 16) ONLINE
RE01	Reza Kazemi-Tabriz, Vasiliy Krivtsov F 9:00am - 11:40am	Seats (Total: 2) OLINE
SG01	Vasiliy Krivtsov, Reza Kazemi-Tabriz F 9:00am - 11:40am	Seats (Total: 1) Location: TBA
SM01	Vasiliy Krivtsov F 9:00am - 11:40am	Seats (Total: 2) Location: TBA

ENRE645 Human Reliability Analysis

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: ENRE645 or ENRE734. Formerly: ENRE734.

Methods of solving practical human reliability problems, cognitive and behavioral modeling, task analysis, performance shaping factors, error classification, distribution of human performance and uncertainty bounds, sources of human error probability data, human error risk mitigation, examples and case studies.

Additional Note: Also offered as ENSE698Gor ENRE645 or ENSE698G.

0101	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 15) JMP 2217
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ER01	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) ONLINE
RE01	Monifa Vaughn-Cooke Tu 9:00am - 11:40am	Seats (Total: 10) ONLINE

ENRE648 Special Problems in Reliability Engineering

(Perm req)

Credits: 1-6

Grading Method: Regular,
Audit

For students who have definite plans for individual study of approved problems. Credit given according to extent of work.

Contact department for information to register for this course.

ENRE655 Advanced Methods in Reliability Modeling

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ENRE602. Credit only granted for: ENRE655 or ENRE665. Formerly: ENRE665.

Bayesian methods and applications, estimation of rare event frequencies uncertainty analysis and propagation methods, reliability analysis of dynamic systems, analysis of dependent failures, reliability of repairable systems, human reliability analysis methods and theory of logic diagrams and application to systems reliability.

0101	Reza Kazemi-Tabriz Th 6:30pm - 9:00pm	Seats (Total: 25) JMP 2222
ER01	Reza Kazemi-Tabriz Class time/details on ELMs	Seats (Total: 15) ONLINE
HT01	Reza Kazemi-Tabriz Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
RE01	Reza Kazemi-Tabriz Class time/details on ELMs	Seats (Total: 10) ONLINE
SG01	Reza Kazemi-Tabriz Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA
SM01	Reza Kazemi-Tabriz Th 4:00pm - 6:40pm	Seats (Total: 5) Location: TBA

ENRE671**Risk Assessment in Engineering**

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: ENRE670. Credit only granted for: ENRE648W or ENRE671. Formerly: ENRE648W.**Introduction to risk management and decision-making, including uncertainty propagation, importance ranking, risk acceptance criteria, decision analysis and other decision-making techniques, risk communication.*

0101	Jeffrey Herrmann TuTh 2:00pm - 3:15pm	Seats (Total: 20) JMP 2222
ER01	Jeffrey Herrmann Contact instructor or department for details.	Seats (Total: 10)
HT01	Jeffrey Herrmann TuTh 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
RE01	Jeffrey Herrmann Contact instructor or department for details.	Seats (Total: 5)
SG01	Jeffrey Herrmann TuTh 2:00pm - 3:15pm	Seats (Total: 5) Location: TBA
SM01	Jeffrey Herrmann Contact instructor or department for details.	Seats (Total: 5)

ENRE799**Master's Thesis Research**

Credits: 1-6

Grading Method: Regular, Sat-
Fail**Contact department for information to register for this course.**

ENRE898**Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular, Sat-
Fail**Contact department for information to register for this course.**

ENRE899**Doctoral Dissertation Research**

(Perm req)

Credits: 6

Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

ENSE**Systems Engineering****Spring 2016**

ENSE622**Systems Requirements, Design and Trade-Off Analysis**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: ENPM641 and ENSE621; or permission of ENGR-Institute for Systems Research. Also offered as: ENPM642. Credit only granted for: ENPM642 or ENSE622.

This course builds on material covered in ENSE621/ENPM641, emphasizing the topics of requirements engineering, system-level design and trade-off analysis. Topics include: requirements engineering processes; representation and organization of requirements; implementation and applications of traceability; capabilities of commercial requirements; engineering software; system-level design; design structure matrices; principles of modular design; component- and interface-based design methods; multi-objective optimization-based design and tradeoff; approaches to system redesign in response to changes in requirements, reliability, trade-off analysis, and optimization-based design. Students will complete a project focussing on the development of requirements and their traceability to the system-level design of an engineering system.

Also offered as ENPM642. Credit granted for ENSE622 or ENPM642

0101	Huan Xu	Seats (Total: 35)
	M 7:00pm - 9:40pm	JMP 2222
HT01	Huan Xu	Seats (Total: 5)
	M 7:00pm - 9:40pm	Location: TBA
SG01	Huan Xu	Seats (Total: 5)
	M 7:00pm - 9:40pm	Location: TBA
SM01	Huan Xu	Seats (Total: 5)
	M 7:00pm - 9:40pm	Location: TBA

ENSE624**Human Factors in Systems Engineering**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM644. Credit only granted for: ENPM644 or ENSE624.

This course covers the general principles of human factors, or ergonomics as it is sometimes called. Human Factors (HF) is an interdisciplinary approach for dealing with issues related to people in systems. It focuses on consideration of the characteristics of human beings in the design of systems and devices of all kinds. It is concerned with the assignment of appropriate functions for humans and machines, whether the people serve as operators, maintainers, or users of the system or device. The goal of HF is to achieve compatibility in the design of interactive systems of people, machines, and environments to ensure their effectiveness, safety and ease of use.

Also offered as ENPM644. Credit granted for ENPM644 or ENSE624.

0101	Robert Beaton	Seats (Total: 40)
	Th 7:00pm - 9:40pm	JMP 3201
HT01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SG01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA
SM01	Robert Beaton	Seats (Total: 5)
	Th 7:00pm - 9:40pm	Location: TBA

ENSE626

(Perm req)

System Life Cycle Analysis and Risk Management

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM646.

This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Also covered, are relevant analytic tools from probability and statistics and also important managerial and organizational concepts. Extensive use is made of case studies and examples from industry and government.

0101	Nidak Sumrean	Seats (Total: 20)
	Tu 7:00pm - 9:40pm	JMP 2222
HT01	Nidak Sumrean	Seats (Total: 5)
	Tu 7:00pm - 9:40pm	Location: TBA
SG01	Nidak Sumrean	Seats (Total: 5)
	Tu 7:00pm - 9:40pm	Location: TBA

SM01	Nidak Sumrean	Seats (Total: 5)
	Tu 7:00pm - 9:40pm	Location: TBA

ENSE627 Systems Quality and Robustness Analysis

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of ENGR-Institute for Systems Research. Also offered as: ENPM647. Credit only granted for: ENPM647 or ENSE627.

This course covers systems engineering approaches for creating optimal and robust engineering systems and for quality assurance. It provides an overview of the important tools for quality analysis and quality management of engineering systems. These tools are commonly used in companies and organizations. Focus is placed on the Baldrige National Quality Program, ISO 9000 certification, six-sigma systems, and Deming total quality management to examine how high quality standards are sustained and customer requirements and satisfactions are ensured. The Taguchi method for robust analysis and design is covered and applied to case studies. Issues of flexible design over the system life cycle are addressed. Statistical process control, international standards for sampling, and design experimentation are also studied.

Also offered as ENPM647. Credit granted for ENPM647 or ENSE627.

0101	Guangming Zhang	Seats (Total: 30)
	W 7:00pm - 9:40pm	JMP 2222
HT01	Guangming Zhang	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA
SG01	Guangming Zhang	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA
SM01	Guangming Zhang	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA

ENSE698F Special Topics in Systems Engineering; Current Issues in Federal Acquisition

Credits: 3 Grading Method: Regular,
Audit

Also offered as BUSI758P and PUA689F. Credit granted for ENSE698F or BUSI758P or PUA689F. The course objective is to explore ways to improve (from a public policy perspective) the efficiency and effectiveness with which the government goes about doing its business. As an "example case," this course will look at the public/private interrelationships (since defense is the "800 lb. gorilla" in government acquisitions) from the perspective of national security, public policy, industrial management and politics in the early 21st century environment. Topics covered include: requirements; budgeting; Congress; science and technology; product development; production and support (management and costs); competition; public/ private partnerships; privatization; small business innovation; role of non-profits; government oversight; the press; the defense industry (structure, conduct, performance - actual and desired); and international considerations (military, industrial and trade). The course will be primarily case-study based with selected complimentary readings(including two short classic books)."

0101	Jacques Gansler	Seats (Total: 20)
	M 4:15pm - 6:45pm	VMH 1203

ENSE698G Special Topics in Systems Engineering; Human Reliability Analysis

Credits: 3 Grading Method: Regular,
Audit

Also offered as ENRE645. Credit granted for ENRE645 or ENSE698G. Methods of solving practical human reliability problems, cognitive and behavioral modeling, task analysis, performance shaping factors, error classification, distribution of human performance and uncertainty bounds , sources of human error probability data, human error risk mitigation, examples and case studies.

0101	Monifa Vaughn-Cooke	Seats (Total: 15)
	Tu 9:00am - 11:40am	JMP 2217
ER01	Monifa Vaughn-Cooke	Seats (Total: 10)
	Tu 9:00am - 11:40am	ONLINE
RE01	Monifa Vaughn-Cooke	Seats (Total: 10)
	Tu 9:00am - 11:40am	ONLINE

ENSE699 Directed Study in Systems Engineering

(Perm req) Credits: 1-3 Grading Method: Sat-Fail

Directed study in Systems Engineering.

Contact department for information to register for this course.

ENSE799 Systems Engineering Thesis; Masters Thesis Research

(Perm req) Credits: 1-6 Grading Method: Regular

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

Contact department for information to register for this course.

ENSP Environmental Science and Policy Spring 2016

ENSP101 Introduction to Environmental Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: PS General Education: DSNS

One of two required courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on scientific ways of knowing; the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.

Contact department for information to register for this course.

ENSP102 Introduction to Environmental Policy

Credits: 3 Grading Method: Regular General Education: DSHS

Additional information: May be taken before or after ENSP101.

Second of two courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on the process of formulating, implementing, and evaluating policy responses to environmental problems, with particular attention to policy controversies related to scientific uncertainty, risk assessment, the valuation of nature, and distributional equity. May be taken before or after ENSP101.

0101	Joanna Goger	Seats (Total: 22)
	TuTh 9:30am - 10:45am	SHM 2102
	F 10:00am - 10:50am	EDU 1315 Discussion
0102	Joanna Goger	Seats (Total: 22)
	TuTh 9:30am - 10:45am	SHM 2102
	F 11:00am - 11:50am	EDU 1315 Discussion
0103	Joanna Goger	Seats (Total: 23)
	TuTh 9:30am - 10:45am	SHM 2102
	F 11:00am - 11:50am	CHE 2145 Discussion
0104	Joanna Goger	Seats (Total: 22)
	TuTh 9:30am - 10:45am	SHM 2102
	Th 2:00pm - 2:50pm	JMZ 1124 Discussion

0105	Joanna Goger	Seats (Total: 22)	
	TuTh 9:30am - 10:45am	SHM 2102	
	F 10:00am - 10:50am	CHE 2145	Discussion
0106	Joanna Goger	Seats (Total: 22)	
	TuTh 9:30am - 10:45am	SHM 2102	
	Th 2:00pm - 2:50pm	JMZ 1224	Discussion
0107	Joanna Goger	Seats (Total: 22)	
	TuTh 9:30am - 10:45am	SHM 2102	
	Th 2:00pm - 2:50pm	KEY 0124	Discussion

ENSP305

Applied Quantitative Methods in Environmental Science and Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BIOM301, ECON321, GEOG306, PSYC200, or SOCY201; and (ENSP101 and ENSP102); and (MATH220, MATH130, or MATH140). Restriction: Must be in a major in AGNR-Dean-Environmental Science & Policy Program; or permission of AGNR-Dean-Environmental Science & Policy Program. Credit only granted for: ENSP305 or AREC382. Additional information: Applied topics covered in this course will supplement coursework in introductory statistics and mathematics; this course is not intended for students with significant previous advanced data analysis or statistical experience.

Intended for students interested in pursuing career or graduate research opportunities that will include management of environmental databases, detailed analysis of environmental data, and/or application of predictive environmental models. Students will learn necessary skills to manage and analyze environmental data through hands-on training in commonly used software and a series of topical case studies. Data analysis and data management will be taught using publicly available real-world environmental data sets.

0101	Gregory Schnaar	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	PLS 1129	

ENSP330

Introduction to Environmental Law

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of AGNR-Dean-Environmental Science & Policy Program. Recommended: ENSP101; and ENSP102. Restriction: Junior standing or higher. Credit only granted for: ENSP330 or ENSP399A. Formerly: ENSP399A.

An overview of environmental law, from its common law roots to its role in the modern regulatory state, including an examination of major federal environment statutes and the policy debates inherent in them. Other areas covered include civil and criminal enforcement, standing to sue, land use control, and regulatory takings.

0101	Joanna Goger	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	LEF 2208

ENSP342 Environmental Threats to Oceans and Coasts: Towards an Integrated Policy Response

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits; and permission of Environmental Science and Policy program. Credit only granted for: ENSP399A or ENSP342. Formerly: ENSP399A.

An interdisciplinary study of the challenges of maintaining the health and vitality of oceans and coasts in the face of climate change, extreme weather, and other threats including pollution, and oil and gas development. Exploration of four broad themes: resource management, conservation and stewardship, pollution, and coastal zone management. Also, an analysis of current efforts to integrate these themes through ecosystem-based management; marine spatial planning; and related policy responses.

0101	Gregory Schnaar	Seats (Total: 30)
	TuTh 9:30am - 10:45am	EGR 3106

ENSP386 Internship

(Perm req)

Credits: 3-6 Grading Method: Regular

Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.

Contact department for information to register for this course.

ENSP399 Special Topics in Environmental Science and Policy

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

Contact department for information to register for this course.

ENSP399R Special Topics in Environmental Science and Policy; Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

A substantive and specialized examination of contemporary issues in environmental science or policy.

0101	Melissa Kenney, Ariana Sutton-Grier F 10:00am - 1:00pm	Seats (Total: 15) Location: TBA
0301	Instructor: TBA Contact instructor or department for details.	Seats (Total: 15)
1001	Jennifer Murrow Contact instructor or department for details.	Seats (Total: 10)

ENSP400 Capstone in Environmental Science and Policy

(Perm req)

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: ENSP101; and ENSP102. Restriction: Senior standing; or permission of the Director of ENSP. And must be in Environmental Science and Policy program.

Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.

0101	Joseph Sullivan TuTh 2:00pm - 3:15pm	Seats (Total: 45) PLS 1130
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ENSP499 Honors Thesis Research

Credits: 1-6 Grading Method: Regular

Individual research, thesis, and oral defense. The research project will be conducted under the supervision of a faculty member.

Contact department for information to register for this course.

ENSP699R Special Topics in Environmental Science and Policy; Research

Credits: 1-6 Grading Method: Regular

Independent study course.

1001	Jennifer Murrow Contact instructor or department for details.	Seats (Total: 10)
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ENST140**Sustainability and History: The Maryland Experience**

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

Examines the changing nature of concern over sustainability through the environmental history of the state of Maryland. The historical approach, supplemented by discussion of the basic scientific processes underlying ecosystem functions and human impacts on the environment, reveals both enduring and changing qualities of the search for sustainable patterns of living, beginning before 17th century European contact and continuing on into the environmental concerns of our own time.

Also offered as HIST189B. Credit Granted for HIST189B or ENST140.

0101	Robert Friedel, Edward Landa	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 9:00am - 9:50am	TLF 1103	Discussion
0102	Robert Friedel, Edward Landa	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 11:00am - 11:50am	TLF 1103	Discussion
0103	Edward Landa, Robert Friedel	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 12:00pm - 12:50pm	TLF 1103	Discussion

ENST233**Introduction to Environmental Health**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSNS

How humans are affected by the quality of our air, water, soil, and food supply as well as how human activities altered these survival necessities are examined. Students will learn how the evolution and prosperity of human populations have resulted in degradation of our environment and the impact of environmental degradation on the health of people.

0101	Lance Yonkos	Seats (Total: 40)	
	TuTh 2:00pm - 3:15pm	ANS 0408	
	W 11:00am - 11:50am	ANS 0422	Discussion
0102	Lance Yonkos	Seats (Total: 40)	
	TuTh 2:00pm - 3:15pm	ANS 0408	
	W 12:00pm - 12:50pm	ANS 0422	Discussion

ENST309**Advanced Field Soil Morphology**

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

This is a field-oriented course that provides advanced training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the National Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field. Students will be exposed to a variety of soil landscapes and geology from outside of the northeastern U.S.

0101	Martin Rabenhorst	Seats (Total: 15)
	Contact instructor or department for details.	

ENST314 Fisheries Management and Sustainability

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. Or ENST214; and 1 course from MATH113-499 course range. Or permission of AGNR-Environmental Science & Technology department.

A detailed look at the ecology, management, and sustainability of fisheries resources. Concepts on human and ecological dimensions are emphasized.

0101	Reginal Harrell	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	ANS 0422

ENST334 Environmental Toxicology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131, CHEM132, and BSCI207; or permission of AGNR-Environmental Science & Technology department.

Concepts and case histories in ecotoxicology. Emphasis on origin and variety of environmental pollutants, routes of biological exposure, modes of toxicological action and effects on individual organisms, populations and ecosystems. Ecotoxicological issues in the Chesapeake Bay will be used as examples.

0101	Daniel Fisher	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	ANS 0412

ENST360 Ecosystem Ecology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI160 and BSCI161; or BSCI106. Restriction: Must be in one of the following programs (Environmental Sci & Tech: Ecological Tech Design; Environmental Sci & Tech: Environmental Health; Environmental Sci & Tech: Soil & Watershed Science; Environmental Sci & Tech: Natural Resources Mgmt; Environmental Sci & Tech).

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

0101	Peter May	Seats (Total: 20)	
	M 12:00pm - 12:50pm	ANS 0422	
	Tu 2:00pm - 6:00pm	ANS 0538	Lab
	M 1:00pm - 1:50pm	ANS 0422	Discussion

ENST389

Internship

(Perm req)

Credits: 3

Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students place in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

0101	Patrick Kangas	Seats (Total: 50)
	Contact instructor or department for details.	

ENST405

Energy and Environment

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH140 or MATH220. Restriction: Junior standing or higher. And must be in Environmental Sci & Tech program; or must be in Environmental Sci & Tech: Ecological Tech Design program; or must be in Environmental Sci & Tech: Environmental Health program; or must be in Environmental Sci & Tech: Soil & Watershed Science program; or must be in Environmental Sci & Tech: Natural Resources Mgmt program. Also offered as: ENST605. Credit only granted for: ENST405, ENSP350, ENST605, NRMT489Z, or MEES698Z. Formerly: NRMT489Z.

Introduction to the role of energy in environmental and human-dominated systems. Discussion of the historical and modern production and consumption of energy. Introduction to energy systems computer simulation and energy auditing.

Also offered as MEES698Z. Credit granted for ENST405 or MEES698Z.

0101	David Tilley	Seats (Total: 44)	
	MW 10:00am - 10:50am	ANS 0422	
	F 10:00am - 11:50am	ANS 0422	Lab

ENST421 Soil Chemistry

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENST200. Credit only granted for: ENST421 or NRSC421. Formerly: NRSC421.

The chemistry and composition of mineral and organic colloids in soils, including ion exchange, oxidation-reduction, acidity, surface charge, and solution chemistry. Lectures and readings pertain to plant nutrition, waste disposal, and groundwater quality.

0101	Kristin Fisher	Seats (Total: 14)	
	MWF 1:00pm - 1:50pm	SYM 0209	
	M 8:00am - 11:00am	HJP 0113	Lab

ENST423 Soil-Water Pollution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM104 and ENST200; and permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST423 or NRSC423.

Reaction and fate of pesticides, agricultural fertilizers, industrial and animal wastes in soil and water with emphasis on their relation to the environment.

0101	Robert Hill	Seats (Total: 35)	
	TuTh 11:00am - 12:15pm	ANS 0412	

ENST430 Wetland Soils

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENST200. Credit only granted for: ENST430, ENST630, or NRSC461. Formerly: NRSC461.

The soils of wetlands including hydrology, chemistry, and genesis are discussed. Federal and regional guidelines for wetland soils are covered with an emphasis on validating interpretations through field observations.

0101	Martin Rabenhorst	Seats (Total: 14)	
	MW 2:00pm - 2:50pm	HBK 0123	
	M 3:00pm - 6:00pm	HJP 0210	Lab

ENST432 Environmental Microbiology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132. And BSCI170 and BSCI171; or BSCI105. Credit only granted for: ENST432 or ENST499M. Formerly: ENST499M.

Microorganisms are everywhere and mediate many of the processes that we observe everyday. These organisms are the unseen catalysts for numerous industrial processes and are critical to many emerging technologies and novel products. Environmental microbiologists ask: How do microorganisms in the environment benefit society? This course will answer this question by examining microbes in bioremediation, food safety, climate change, and biotechnology.

0101	Stephanie Yarwood	Seats (Total: 30)	
	MW 2:00pm - 3:15pm	JMP 1109	

ENST440 Crops, Soils and Civilization

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Credit only granted for: ENST440 or NRSC440. Formerly: NRSC440.

Role and importance of crop and soil resources in the development of human civilization. History of crop and soil use and management as they relate to the persistence of ancient and modern cultures.

0101	Edward Landa	Seats (Total: 32)	
	TuTh 3:30pm - 4:45pm	HBK 0103	

ENST443 Industrial Ecology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH140 or MATH220; and BSCI361. Or permission of AGNR-Environmental Science & Technology department. Also offered as: ENST643. Credit only granted for: ENST443, ENST643, or MEES698J.

Problems of waste management and recycling in human societies are covered. The industrial ecology approach to design is contrasted with analogous patterns and processes from natural ecosystems.

0101	Patrick Kangas	Seats (Total: 20)	
	M 11:00am - 11:50am	ANS 0422	
	W 11:00am - 2:50pm	ANS 0538	Lab

ENST445 Ecological Risk Assessment

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENST360 or BSCI361; and (BIOM301 and ENST334). Or permission of AGNR-Environmental Science & Technology department.

Assessment of ecological impacts of perturbations on natural systems. Course will describe quantitative methods for estimating environmental impacts by extrapolating from laboratory and field data. The role of regulatory agencies and implications of scientific uncertainty on risk management will be covered.

0101	Timothy Iannuzzi, Scott Lynn	Seats (Total: 30)	
	TuTh 6:30pm - 7:45pm	ANS 0422	

ENST452 Wetland Restoration

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: (BSCI160 and BSCI161; or BSCI106); and (BSCI362, ENST450, ENST360, or BSCI361). Or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST452, ENST652, or MEES652.

Design, construction, and evaluation of wetlands restored or created to provide ecosystem services or to mitigate losses due to development. Topics include fundamental properties of wetlands, ecological restoration theory, site selection and goal-setting, design plans, practices for establishing wetland hydrology, substrate, and vegetation, and restored ecosystem monitoring. Two mandatory Saturday field trips will be held (dates to be announced); waterproof boots or waders are recommended for field trips.

0101	Andrew Baldwin	Seats (Total: 41)	
	TuTh 2:00pm - 3:15pm	ANS 0412	

ENST453 Watershed Science: Water Balance, Open Channel Flow, and Near Surface Hydrology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ENST453 or ENST653.

Concepts of surface water balance, surface radiative flux, precipitation and evaporation measurements.

0101	Michael Kearney	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	ANS 0422

ENST462 Field Techniques in Wildlife Management

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENST460. And BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. Recommended: ENST461. Restriction: Permission of AGNR-College of Agriculture & Natural Resources. Credit only granted for: ENST462, NRMT462, or NRMT489B. Formerly: NRMT462.

Hands-on experience with field techniques in wildlife management focusing on various methods of conducting indices, estimates, and censuses of wildlife populations. Includes capture and handling of amphibians, reptiles, birds, and mammals by use of drift fences, cover boards, mist nets, box traps, and dart guns.

0101	Jennifer Murrow	Seats (Total: 15)
	F 11:00am - 3:00pm	ANS 0538 Lab

ENST466 Ecology and Management of Wildlife Habitats

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: ENST460.

Introduction to general concepts of wildlife habitat ecology and management. Specifically, land use practices on public and private lands and how these practices influence wildlife production. Conduct wildlife habitat evaluations and options for alterations/manipulations to achieve specific management goals. The class will culminate with the creation and planning of a wildlife management plan.

0101	Jennifer Murrow	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ANS 0422

ENST467 Ecology and Management of Wildlife Habitats Lab

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: ENST466.

An introduction to the principles of wildlife habitat data analysis applied at the population level. This class will teach students real world techniques used to determine and model habitat use on multiple scales. This lab course complements the material covered in ENST 466.

0101	Jennifer Murrow	Seats (Total: 10)
	TuTh 11:00am - 12:50pm	ANS 0509

ENST472

Capstone II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: CS

Prerequisite: ENST471. Restriction: Must be in a major within AGNR-Environmental Science & Technology department; and permission of AGNR-Environmental Science & Technology department.

This course is the second in a two-part series. Students will continue work on projects proposed and begun in ENST471. Focus on professional project preparation, presentation, critical evaluation on environmental science research, professional development, and career planning. Students will develop and present original projects and critique projects presented by others.

1201	Andrew Baldwin	Seats (Total: 15)
	W 3:00pm - 3:50pm	Location: TBA
	Contact instructor or department for details.	
1205	William Bowerman	Seats (Total: 15)
	Contact instructor or department for details.	
	Contact instructor or department for details.	
1501	Gary Felton	Seats (Total: 15)
	Contact instructor or department for details.	
	Contact instructor or department for details.	
1505	Lance Yonkos, Daniel Fisher	Seats (Total: 15)
	Th 5:00pm - 6:00pm	Location: TBA
	Contact instructor or department for details.	
1601	Robert Hill	Seats (Total: 15)
	Contact instructor or department for details.	
	Contact instructor or department for details.	
1801	Patrick Kangas	Seats (Total: 15)
	M 3:00pm - 5:00pm	Location: TBA
	Contact instructor or department for details.	

1802	Stephanie Lansing Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 15)
2105	Wendy Peer Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 15)
2201	Martin Rabenhorst Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 15)
2601	David Tilley W 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 15) Location: TBA
2701	Raymond Weil Contact instructor or department for details. Contact instructor or department for details.	Seats (Total: 15)

ENST481

Ecological Design

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH220 or MATH140; and (PHYS121 and CHEM131); and (BSCI361; or students who have taken courses with comparable content may contact the department). Or permission of instructor. Restriction: Permission of AGNR-Environmental Science & Technology department. Also offered as: ENST681, MEES681. Credit only granted for: ENST481, ENST681, or MEES681.

An advanced survey course on the field of ecological design. Principles of design are illustrated with case studies from biologically-based waste treatment systems, ecosystem management and sustainable development. Concepts covered include ecology, ecological engineering, nutrient cycling, emergy, lifecycle analysis, and design process. Technologies include treatment wetlands, living machines, anaerobic digestion, rain gardens, bioswales, bioremediation, algal turf scrubbers, and green building design.

0101	Stephanie Lansing TuTh 12:30pm - 1:45pm Tu 9:00am - 10:50am	Seats (Total: 20) ANS 0422 ANS 0538 Lab
0201	Stephanie Lansing TuTh 12:30pm - 1:45pm Th 9:00am - 10:50am	Seats (Total: 20) ANS 0422 ANS 0538 Lab

ENST489 Field Experience

(Perm req)

Credits: 1-4

Grading Method: Regular,
Pass-Fail, Audit

Planned field experience for both major and non-major students.

Contact department for information to register for this course.

ENST499 Special Topics in Environmental Science and Technology

(Perm req)

Credits: 1-4

Grading Method: Regular,
Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Contact department for information to register for this course.

ENST499D Special Topics in Environmental Science and Technology; Anaerobic Digestion Design and Testing

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

Credit only granted for ENST499D or ENST689D.

0101	Stephanie Lansing	Seats (Total: 5)
Contact instructor or department for details.		

ENST499Z Special Topics in Environmental Science and Technology; Introductory University Instruction

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organize to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0101	Lance Yonkos	Seats (Total: 1)
Contact instructor or department for details.		

ENST608 Research Methods

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.

Contact department for information to register for this course.

ENST630 Advanced Wetland Soils

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: ENST200. Credit only granted for: ENST630, ENST403, or NRSC461.

The soils of wetlands including hydrology, biogeochemistry, and pedogenesis, including a focused discussion of current literature. Federal and regional guidelines for wetland soils are covered with an emphasis on validating interpretations through field observations.

0101	Martin Rabenhorst	Seats (Total: 6)	
	MW 2:00pm - 2:50pm	HBK 0123	
	M 3:00pm - 6:00pm	HJP 0210	Lab
	W 11:00am - 11:50am	JMP 1109	Discussion

ENST640 Advanced Crops, Soils, and Civilization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: ENST440. Credit only granted for: ENST440 or ENST640.

Explore the rise, cycling, resilience, and decline of civilizations and apply learning to modern issues in the fields of sustainability, environmental ethics, natural resource management, and agriculture. Role and importance of crop and soil resources in the development of human civilization. History of crop and soil use and management as they relate to the persistence of ancient and modern cultures.

0101	Edward Landa	Seats (Total: 10)	
	TuTh 3:30pm - 4:45pm	HBK 0103	

ENST643 Advanced Industrial Ecology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: BSCI361; and permission of AGNR-Environmental Science & Technology department. Also offered as: ENST443. Credit only granted for: ENST443 or ENST643.

Problems of waste management and recycling in human societies are covered. The industrial ecology approach to design is contrasted with analogous patterns and processes from natural ecosystems.

0101	Patrick Kangas	Seats (Total: 20)	
	M 11:00am - 11:50am	ANS 0422	
	W 11:00am - 2:50pm	ANS 0538	Lab

ENST681 Advanced Ecological Design

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed one semester of calculus; and (CHEM131 and PHYS121). Or permission of instructor. Also offered as: ENST481, MEES681. Credit only granted for: ENST481, ENST681, or MEES681.

An advanced survey course on the field of ecological design. Principles of design are illustrated with case studies from biologically-based waste treatment systems, ecosystem management and sustainable development.

0101	Stephanie Lansing	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	HJP 1213C	

ENST689C Special Topics; Adaptation and resilience in urban social-ecological systems

Credits: 3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Mitchell Pavao-Zuckerman	Seats (Total: 10)	
	M 2:00pm - 4:50pm	ANS 0422	

ENST689D Special Topics; Anaerobic Digestion Design and Testing

Credits: 1 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Credit only granted for ENST499D or ENST689D.

0101	Stephanie Lansing	Seats (Total: 5)	
	Contact instructor or department for details.		

ENST689N Special Topics; Living Machine and Aquatic Restorer Construction

Credits: 2 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Patrick Kangas	Seats (Total: 1)
	Contact instructor or department for details.	

ENST689P Special Topics; Water and Development: A Global Challenge

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Prerequisite: MATH220 or MATH140 (students who have taken courses with comparable content may contact the department). This course explores the relation between water and development that is increasingly influenced by conflicts over the resource at both regional and global scales. It offers a multidisciplinary investigation of water systems development and management through real-world case studies .

0101	Masoud Negahban-Azar	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	ANS 1422

ENST689X Special Topics; Methods in University Teaching

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Raymond Weil	Seats (Total: 2)
	Contact instructor or department for details.	

ENST689Y Special Topics: Advances in Research, Plant Membrane Biology

Credits: 2 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Designed to provide a venue for interactive discussion between ENST graduate students and other members of the ENST community regarding thesis/dissertation research planned or conducted as part of the students graduate program.

0101	Stephanie Yarwood, Martin Rabenhorst	Seats (Total: 40)
	W 4:00pm - 4:50pm	ANS 0408

ENST799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENST899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

ENTM Entomology Spring 2016

ENTM609 Integrated Pest Management

Credits: 4 Grading Method: Regular

A modular course with an interdisciplinary approach to the theory and practice of integrated pest management. Topics of modules, each 3-4 weeks long, vary each semester over a three year time frame, with the first module serving as a prerequisite for all other modules.

0101	Kelly Hamby	Seats (Total: 20)
	W 9:00am - 11:00am	PLS 1161
	F 9:00am - 12:00pm	PLS 1161 Lab
	W 11:00am - 12:00pm	PLS 1161 Discussion

ENTM667 Aquatic Entomology

Credits: 3 Grading Method: Regular

Biology, ecology, and taxonomy of aquatic insects in lotic and lentic habitats, their adaptation to aquatic life, their function in aquatic ecosystems, and their relationship to environmental deterioration.

0101	William Lamp	Seats (Total: 20)	
	W 1:00pm - 1:50pm	PLS 1158	
	W 2:00pm - 5:00pm	PLS 1161	Lab
	F 1:00pm - 3:00pm	PLS 1161	Discussion

ENTM720 Native, Invasive, and Exotic Species

Credits: 3 Grading Method: Regular

This course will examine introduced species impact, how invasive and exotic species spread, their impact of native species and methods of invasive species control.

PLE1	Michael Raupp	Seats (Total: 10)
	Meets February 29, 2016 - May 20, 2016	
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the Professional Entomology Program.</i>	

ENTM725 IPM Practices

Credits: 3 Grading Method: Regular

Students will be introduced to the techniques of integrated pest management for proper pest control management. Integrated Pest Management (IPM) has been the most successful management paradigm for agriculture, forestry, and urban pest management for more than five decades. Students will learn the fundamental elements of IPM programs including recognition and monitoring of key pests, formation of decision-making guidelines, intervention tactics, and fundamentals of assessment.

PLE1	Galen Dively	Seats (Total: 10)
	Meets February 29, 2016 - May 20, 2016	
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the Professional Entomology Program.</i>	

ENTM740 Organic Practices

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Students learn about alternative to chemical pesticides, and what being certified organic entails and how these practices relate to ecological principles. This course will discuss various natural processes that occur in the farm setting to determine the best practices to maintain biodiversity and successful crop production.

Contact department for information to register for this course.

ENTM788C Entomological Topics; Colloquium

Credits: 1-3 Grading Method: Regular,
Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

0101	Alys Jarvela	Seats (Total: 75)
	F 12:00pm - 1:50pm	PLS 1130

ENTM788P Entomological Topics; Socio-Environmental Synthesis and Sustainability Research

Credits: 3 Grading Method: Regular,
Audit

One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.

Also offered as MEES708P. Credit granted for MEES708P or ENTM788P.

0101	Matthew LaFevor, Jampel Dell'Angelo, David Hawthorne	Seats (Total: 20)
	W 1:00pm - 4:00pm	HJP 1213C

ENTM798A Topic Seminar; Applications of Phylogenetics in Ecology and Evolution

Credits: 1 Grading Method: Regular,
Audit

Discussion and presentation of current research and literature.

0101	Charles Mitter	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM798G Topic Seminar; Insects and Climate Change

Credits: 1 Grading Method: Regular,
Audit

Discussion and presentation of current research and literature.

0101	William Lamp	Seats (Total: 20)
	Contact instructor or department for details.	

ENTM799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

ENTM898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

ENTM899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular
Contact department for information to register for this course.

ENTS Telecommunications Spring 2016

ENTS625 Management and Organizational Behavior in the Telecommunications Industry

Credits: 3 Grading Method: Regular,
Audit

Roles of the general manager in: determining target markets and designing strategies for them; formulating and implementing corporate and business level strategies; and staffing, developing, and managing human resources and coordinating them with the organization's financial and physical resources. Also emphasizes the building of interpersonal skills with respect to the selection of members for work teams and team formation, leadership of teams toward the achievement of strategic goals and total quality, the development and motivation of team members, and the evaluation of team and individual performance.

0101	David Kressler	Seats (Total: 40)
	Th 2:00pm - 4:45pm	SQH 1105
0201	David Kressler	Seats (Total: 40)
	Th 5:30pm - 8:15pm	SQH 1105

ENTS629B Special Topics in Cybersecurity; Cryptography and Network Security

Credits: 3 Grading Method: Regular,
Audit

Selected topics of current importance in cybersecurity.

0201	Henry Boyd	Seats (Total: 40)
	Tu 2:00pm - 4:45pm	SQH 1105

ENTS635 Decision Support Methods for Telecommunication Managers

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in Telecommunications (Master's) program.

The aim of this course is to introduce management science techniques for informed decision making. Topics covered can include data analysis and regression, optimization models and applications (workforce scheduling, manufacturing, network design, facility location), sensitivity analysis, decision trees, risk analysis and business simulation models. Emphasis will be on telecommunications managerial problems, model development and the use of software packages for decision support.

0101	Kazim Ruhi	Seats (Total: 40)
	M 5:30pm - 8:15pm	SQH 1105
0201	Kazim Ruhi	Seats (Total: 40)
	M 2:00pm - 4:45pm	SQH 1105

ENTS641 Networks and Protocols II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: ENTS640. Restriction: Must be in Telecommunications (Master's) program.

Techniques for the specification, design, analysis, verification and testing of communication protocols are discussed. The course includes detailed discussion on routing protocols in the Internet. This includes Routing Information Protocol (RIP), Enhanced Interior Gateway Routing Protocol (EIGRP). Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP4).

0101	Mehdi Kalantari Khandani	Seats (Total: 51)
	Th 5:30pm - 8:15pm	CSS 2428
0201	Mehdi Kalantari Khandani	Seats (Total: 40)
	Th 2:00pm - 4:45pm	CHE 2136

ENTS656 Introduction to Cellular Communication Networks

Credits: 3 Grading Method: Regular,
 Audit

Concepts and techniques involved in wireless digital communications with emphasis on cellular and PCS systems. Properties of Mobile radio channels; intersymbol interference, multipath, and fading effects; interleaving and diversity; multiple access schemes (TDMA, FDMA, CDMA); interuser interference, traffic issues, and cell capacity; power control strategies; frequency reuse and channel assignment; handoff, paging, and location update; cell layout; introduction to cellular and PCS standards.

0101	Michael Dellomo	Seats (Total: 24)	
	Tu 5:30pm - 8:15pm	CHE 2108	
	Th 5:30pm - 8:15pm	AVW 1458	Lab
0102	Michael Dellomo	Seats (Total: 24)	
	Tu 5:30pm - 8:15pm	CHE 2108	
	W 2:00pm - 4:45pm	AVW 1458	Lab
0201	Michael Dellomo	Seats (Total: 23)	
	Tu 2:00pm - 4:45pm	CHE 2136	
	Th 9:00am - 11:45am	AVW 1458	Lab
0202	Michael Dellomo	Seats (Total: 20)	
	Tu 2:00pm - 4:45pm	CHE 2136	
	W 9:00am - 11:45am	AVW 1458	Lab

ENTS657

Satellite Communication Systems

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: ENTS657 or ENTS689S. Formerly: ENTS689S.

An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.

0101	Michael Dellomo	Seats (Total: 40)	
	W 5:30pm - 8:15pm	EGR 3106	

ENTS659B

Special Topics in Communications; Microwave Radio Communications Systems

Credits: 3 Grading Method: Regular,
Audit

Selected topics of current importance in communications.

0101	Rikin Thakker	Seats (Total: 30)
	F 2:00pm - 4:45pm	EGR 2154

ENTS659M Special Topics in Communications; Intelligent Wireless Technologies

Credits: 3 Grading Method: Regular,
Audit

Selected topics of current importance in communications.

0101	Alejandra Mercado	Seats (Total: 30)
	W 2:00pm - 4:45pm	EGR 3106

ENTS689G Special Topics in Telecommunications; Design and Analysis of Communication Networks

Credits: 3 Grading Method: Regular,
Audit

Selected topics of current importance in telecommunications.

0101	Majid Raissi-Dehkordi	Seats (Total: 24)
	M 5:30pm - 8:15pm	AVW 1458

ENTS689K Special Topics in Telecommunications; Telecommunications Entrepreneurial Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected topics of current importance in telecommunications.

0201	Michael Dellomo	Seats (Total: 3)
	Contact instructor or department for details.	

ENTS749D Advanced Topics in Networking; Network Design and Configuration Lab

Credits: 3 Grading Method: Regular,
Audit

Selected advanced topics in networking.

0101	Zoltan Safar	Seats (Total: 18)
	F 2:00pm - 4:45pm	AVW 1324

ENTS759A Advanced Topics in Communications; 3G/4G Wireless Networks and Systems

Credits: 3 Grading Method: Regular,
Audit

Selected advanced topics in communications.

0101	Kamran Etemad	Seats (Total: 25)
	F 2:00pm - 4:45pm	CSS 2416
0201	Kamran Etemad	Seats (Total: 25)
	F 5:30pm - 8:15pm	CSS 2416

ENTS759B Advanced Topics in Communications; Wireless OFDM Systems

Credits: 3 Grading Method: Regular,
Audit

Selected advanced topics in communications.

Prerequisite: ENTS622.

0101	Alejandra Mercado	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	JMP 1109

EPIB Epidemiology and Biostatistics Spring 2016

EPIB300 Biostatistics for Public Health Practice

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program. Also offered as: HLTH300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Jing Zhang	Seats (Total: 50)
	Th 4:00pm - 6:30pm	SPH 0308
	<i>Restricted to College Park students.</i>	
0201	Raul Cruz-Cano	Seats (Total: 30)
	Tu 4:00pm - 6:30pm	SPH 0225

SG91	Raul Cruz-Cano M 9:00am - 11:50am <i>Restricted to Shady Grove students.</i>	Seats (Total: 35) Location: TBA
SG92	Raul Cruz-Cano M 1:00pm - 3:50pm <i>Restricted to Shady Grove students.</i>	Seats (Total: 35) Location: TBA

EPIB301

Epidemiology for Public Health Practice

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in EPIB300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: HLTH301. Credit only granted for: EPIB301 and HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Natalie Slopen MWF 12:00pm - 12:50pm	Seats (Total: 45) SPH 0308
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EPIB330

The Coming Plague: Public Health Perspectives

Credits: 3 Grading Method: Regular

Prerequisite: BSCI202.

Disease control and prevention is fundamental to the health of local, national, and global populations. Infectious agents are constantly adapting and breaching our defenses. Factors related to society, the environment, and our increasing global interconnectedness increase the likelihood of disease emergence and spread. Vaccines and antibiotics, demographic changes and urbanization, climate change and natural disasters, international travel and commerce, poverty and war create conditions for infectious diseases to spread. So how do we design and execute solutions to public health threats? How do research, policies, interventions, and budgets affect public health systems?

0101	Graciela Jaschek TuTh 9:30am - 10:45am	Seats (Total: 45) ARC 1103
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EPIB399

Epidemiology and Biostatistics Independent Study

Credits: 1-3 Grading Method: Regular

Overview of prevalence and risk factors for major chronic diseases. Discussion of methodological issues unique to specific chronic disease.

0101	Olivia Carter-Pokras	Seats (Total: 22)
	Tu 4:00pm - 6:45pm	SPH 0308

EPIB641 Public Health and Research Ethics

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Overview and discussion of ethical issues that face public health practitioners and researchers.

Also offered as KNES689Y. Credit granted for EPIB641 or KNES689Y.

0101	Barbara Alving	Seats (Total: 30)
	Meets January 25, 2016 - March 14, 2016	
	F 11:00am - 12:50pm	SPH 0305

EPIB650 Biostatistics I

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB placement exam. Credit only granted for: EPIB650, HLTH651, or HLTH688B. Formerly: HLTH651 and HLTH688B.

Basic statistical concepts and procedures for Public Health. Focuses on applications, hands-on-experience, and interpretations of statistical findings.

0101	Xin He	Seats (Total: 25)
	Tu 4:00pm - 6:45pm	SPH 0305
PLH1	Raul Cruz-Cano	Seats (Total: 30)
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health programs.</i>	

EPIB651 Biostatistics II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: A B or higher in EPIB650 OR for students who have officially waived EPIB650, a minimum score of 70% on the EPIB650 placement exam. Recommended: Previous coursework and/or experience with SAS is highly recommended.

Introduction to a variety of statistical tools with applications in public health, including one- and two-sample inference, nonparametric methods, categorical data, ANOVA, simple and multiple regression.

0101	Shuo Chen	Seats (Total: 20)
	W 4:00pm - 6:45pm	SPH 1301

EPIB653 Applied Survival Data Analysis

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EPIB650 and EPIB651.

Overview of statistical methods for analyzing censored survival data, including the Kaplan-Meier estimator, the log-rank test, Cox PH model.

0101	Mei-Ling Lee	Seats (Total: 20)
	W 1:00pm - 3:45pm	SPH 0301

EPIB661 Race and Health

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EPIB610 or permission from instructor.

Enduring racial disparities in health in the U.S. represent a critical public health dilemma. This course critically evaluates research on race, racism, and health from an epidemiologic perspective. Examine how race has been conceptualized and measured, tease out underlying assumptions, and discover sources of racial disparities in health from an epidemiologic or population-based lens.

0101	David Chae	Seats (Total: 15)
	W 1:00pm - 3:45pm	SPH 0225

EPIB662 Epidemiologic Methods in Sexual and Reproductive Health Research

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EPIB610 or permission from instructor.

Examination of epidemiologic methods (quantitative and qualitative) for collecting and analyzing data on sexual and reproductive health. The emphasis will be to introduce students to the appropriate methods used for challenging and sensitive research topics such as sexual behavior, HIV/STI, drug use, sexual abuse.

0101	Typhanye Dyer	Seats (Total: 15)
	Th 1:00pm - 3:45pm	SPH 0225

EPIB697 Public Health Data Management

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor.

This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.

0101	Graciela Jaschek, Raul Cruz-Cano	Seats (Total: 12)
	W 4:00pm - 6:45pm	SPH 0227

EPIB740 Advanced Methods in Epidemiology

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: EPIB650, EPIB610, EPIB612, EPIB651, and EPIB611.

In-depth investigation of epidemiologic methods for making causal inferences and solving complex methodological problems. Multivariate models emphasized.

0101	Hongjie Liu	Seats (Total: 20)
	M 4:00pm - 6:45pm	SPH 1303

EPIB785 Internship in Public Health

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Contact department for information to register for this course.

EPIB786

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

EPIB788

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Open to master and doctoral students to discuss critical readings in Epidemiology and Biostatistics.

Contact department for information to register for this course.

EPIB798

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty member of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799

(Perm req)

Credits: 1-6 Grading Method: Regular, Satisfail

Contact department for information to register for this course.

EPIB898

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EPIB899

(Perm req)

Credits: 6 Grading Method: Regular, Satisfactory, Fail

Contact department for information to register for this course.

EXST018A Advanced Consecutive Interpretation; English into Spanish/Spanish into English Interpretation

Credits: 0

Grading Method:

PG01	Iciar Gomez	Seats (Total: 16)
Meets February 2, 2016 - May 13, 2016		
Tu 6:30pm - 8:30pm		Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 2. English to Spanish.</i>		
PG02	Instructor: TBA	Seats (Total: 16)
Meets February 18, 2016 - May 13, 2016		
Contact instructor or department for details.		
<i>Restricted to students in GSIT Program. Spanish into English.</i>		

EXST018B Advanced Consecutive Interpretation; Chinese into English/English into Chinese Interpretation

Credits: 0

Grading Method:

PG01	Ni Meggers	Seats (Total: 16)
Sa 9:00am - 11:00am		Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 13. English into Chinese.</i>		
PG02	Victoria Segal	Seats (Total: 16)
Sa 2:00pm - 4:00pm		Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 6. Chinese into English.</i>		

EXST018C Advanced Consecutive Interpretation; English into Korean/Korean into English

Credits: 0

Grading Method:

Restricted to students in GSIT program.

PG01	Suha Kremin, Jamie Wright	Seats (Total: 16)
W 11:00am - 1:00pm		SKN 3118
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 3.</i>		

EXST018D Advanced Consecutive Interpretation; French into English/English into French

Credits: 0

Grading Method:

PG01	Gerard Francois	Seats (Total: 16)
	M 11:30am - 1:30pm	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 25.</i>		

EXST019A Consecutive Interpretation; Multilingual Interpretation: Methodology

Credits: 0 Grading Method:

PG01	Peng Wang	Seats (Total: 16)
	F 9:00am - 11:00am	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 29.</i>		

EXST019B Consecutive Interpretation; Chinese into English/English into Chinese Interpretation

Credits: 0 Grading Method:

PG01	Handan Bao	Seats (Total: 16)
	W 10:00am - 11:30am	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 27.</i>		
PG02	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 9:30am - 11:30am	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 30.</i>		

EXST019C Consecutive Interpretation; Spanish into English Interpretation/English into Spanish

Credits: 0 Grading Method:

Restricted to students in GSIT Program. Class will meet every other week beginning January 27.

PG01	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 12:00pm - 2:00pm	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 30.</i>		

PG02	Teresa Salazar	Seats (Total: 16)
	W 5:30pm - 7:30pm	Location: TBA
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 27.</i>		

EXST019D Consecutive Interpretation; French into English/English into French Interpretation

Credits: 0 Grading Method:

PG01	Gerard Francois	Seats (Total: 16)
	M 9:30am - 11:30am	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 25.</i>		

EXST019E Consecutive Interpretation; Arabic into English/English into Arabic Interpretation

Credits: 0 Grading Method:

PG01	Nina Behrens	Seats (Total: 16)
	M 3:00pm - 5:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 25.</i>		

EXST019G Consecutive Interpretation; Chinese/English Sight Translation

Credits: 0 Grading Method:

PG01	Yu Tang	Seats (Total: 16)
	Th 6:30pm - 8:30pm	Location: TBA
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 28.</i>		

EXST019I Consecutive Interpretation; Arabic/English Sight Translation

Credits: 0 Grading Method:

PG01	Mahmoud Elgibali	Seats (Total: 16)
	Th 9:00am - 11:00am	SKN 2127
<i>Restricted to students in GSIT program. Class will meet every other week beginning February 4.</i>		

EXST019J**Consecutive Interpretation; Spanish/English Sight Translation**

Credits: 0

Grading Method:

PG01	Teresa Salazar	Seats (Total: 16)
	W 7:30pm - 8:30pm	SKN 3117
<i>Restricted to students in GSIT program. Class will meet every other week beginning January 27.</i>		
PG02	M Santangelo	Seats (Total: 16)
	Sa 11:00am - 12:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 6.</i>		

EXST019K**Consecutive Interpretation; French/English Sight Translation**

Credits: 0

Grading Method:

PG01	Brigitte Andreassier	Seats (Total: 16)
	Contact instructor or department for details.	
<i>Restricted to students in GSIT program.</i>		

EXST019N**Consecutive Interpretation; Russian Interpretation**

Credits: 0

Grading Method:

PG01	Nikolai Sorokin	Seats (Total: 16)
	Tu 11:30am - 1:30pm	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 2.</i>		
PG02	Sergei Chernov	Seats (Total: 16)
	Sa 9:00am - 10:00am	SKN 2127
<i>Restricted to students in GSIT Program. Begins February 6.</i>		

EXST019O**Consecutive Interpretation; Spanish into Russian Interpretation**

Credits: 0

Grading Method:

PG01	Sergei Chernov	Seats (Total: 16)
	Sa 10:00am - 11:00am	SKN 2127
<i>Restricted to students in GSIT Program. Begins February 6.</i>		

EXST019P Consecutive Interpretation; Russian Sight Translation

Credits: 0 Grading Method:

PG01	Nikolai Sorokin	Seats (Total: 16)
	Tu 10:00am - 11:00am	SKN 3117
<i>Restricted to students in GSIT Program.</i>		
PG02	Alexander Dubrovin	Seats (Total: 16)
	Tu 9:00am - 10:00am	SKN 3117
<i>Restricted to students in GSIT Program.</i>		

EXST019Q Consecutive Interpretation; Spanish/Russian Sight Translation

Credits: 0 Grading Method:

PG01	Sergei Chernov	Seats (Total: 16)
	Meets February 6, 2016 - March 18, 2016	
	Sa 11:00am - 12:00pm	SKN 2127
<i>Restricted to students in GSIT Program.</i>		

EXST029A Introduction to Simultaneous Interpretation; French

Credits: 0 Grading Method:

PG01	Thomas Afton	Seats (Total: 16)
	Meets April 18, 2016 - April 22, 2016	
	TBA	SKN 3118
<i>Restricted to students in GSIT program.</i>		

EXST029B Introduction to Simultaneous Interpretation; Spanish

Credits: 0 Grading Method:

PG01	Rosalinda Meza-Steel	Seats (Total: 16)
	Sa 2:00pm - 6:00pm	SKN 3118
<i>Restricted to students in GSIT program. Class will meet every other week beginning March 26.</i>		

EXST029C Introduction to Simultaneous Interpretation; Arabic

Credits: 0 Grading Method:

PG01	Nina Behrens	Seats (Total: 16)
	Meets March 13, 2016 - May 10, 2016	
	M 5:00pm - 7:00pm	SKN 3118
	<i>Restricted to students in GSIT program. Class will meet every other week beginning March 21.</i>	

EXST029E Introduction to Simultaneous Interpretation; Chinese

Credits: 0 Grading Method:

PG01	Handan Bao	Seats (Total: 16)
	Meets March 13, 2016 - May 10, 2016	
	W 1:00pm - 4:00pm	SKN 3118
	<i>Restricted to students in GSIT program. Class will meet every other week beginning March 23.</i>	

EXST029F Introduction to Simultaneous Interpretation; Russian

Credits: 0 Grading Method:

PG01	Nikolai Sorokin	Seats (Total: 16)
	Meets March 13, 2016 - May 10, 2016	
	Tu 1:30pm - 3:30pm	SKN 3118
	<i>Restricted to students in GSIT Program. Class will meet every other week beginning March 29.</i>	
PG02	Sergei Chernov	Seats (Total: 16)
	Sa 11:30am - 12:30pm	SKN 3118
	<i>Restricted to students in GSIT Program. Class will meet every other week beginning April 2.</i>	

EXST048A Advanced Simultaneous Interpretation; French into English/English into French

Credits: 0 Grading Method:

PG01	Gerard Francois	Seats (Total: 16)
	M 1:30pm - 3:30pm	SKN 3118
	<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 25.</i>	

EXST048B Advanced Simultaneous Interpretation; Chinese into English/English into Chinese

Credits: 0 Grading Method:

PG01	Handan Bao	Seats (Total: 16)
	Tu 1:00pm - 5:00pm	SKN 3118
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 26.</i>		

EXST048C Advanced Simultaneous Interpretation; Spanish into English/English into Spanish

Credits: 0 Grading Method:

PG01	Rosalinda Meza-Steel	Seats (Total: 16)
	Tu 7:00pm - 9:00pm	SKN 3118
<i>Restricted to students in GSIT program. Class will meet every other wee beginning January 26.</i>		
PG02	Gregory Garcia	Seats (Total: 16)
	Su 10:00am - 12:00pm	SKN 3118
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 7.</i>		

EXST048D Advanced Simultaneous Interpretation; Korean into English/English into Korean

Credits: 0 Grading Method:

PG01	Lee Boese	Seats (Total: 16)
	Sa 9:30am - 11:30am	SKN 3118
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 30.</i>		
PG02	Yong-Ha Lee	Seats (Total: 16)
	M 10:00am - 12:00pm	SKN 3118
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 1.</i>		

EXST049A Translation for Specific Domains; Multilingual Translation; Methodology

Credits: 0 Grading Method:

PG01	Peng Wang	Seats (Total: 16)
	W 1:00pm - 3:00pm	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 3.</i>		

EXST049B Translation for Specific Domains; Spanish into English/English to Spanish Translation

Credits: 0 Grading Method:

PG01	M Santangelo	Seats (Total: 16)
	Sa 9:00am - 11:00am	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 6.</i>		
PG02	Charles Becker	Seats (Total: 16)
	Tu 6:00pm - 8:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 2.</i>		

EXST049C Translation for Specific Domains; Korean into English/English into Korean Translation

Credits: 0 Grading Method:

PG01	McDonald Hyunju	Seats (Total: 16)
	Sa 10:00am - 2:00pm	SKN 0105
<i>Restricted to students in GSIT program. "In class meetings: 2/20, 4/2, 5/07.</i>		

EXST049D Translation for Specific Domains; Arabic into English/English into Arabic Translation

Credits: 0 Grading Method:

PG01	Mahmoud Elgibali	Seats (Total: 16)
	Th 11:00am - 1:00pm	SKN 2127
<i>Restricted to students in GSIT program. Class will meet every other week beginning February 4.</i>		
PG02	Richard Popp	Seats (Total: 16)
	Th 5:00pm - 7:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week in PLS 1146; beginning January 28.</i>		

EXST049G Translation for Specific Domains; English into Chinese/Chinese into English Translation

Credits: 0 Grading Method:

PG01	Irina Knizhnik	Seats (Total: 16)
	W 4:00pm - 6:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week in HBK 0115; beginning January 27.</i>		
PG02	Min Eu	Seats (Total: 16)
	Tu 10:30am - 12:30pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 26.</i>		

EXST049I Translation for Specific Domains; French into English/English into French Translation

Credits: 0 Grading Method:

PG01	Brigitte Andreassier	Seats (Total: 16)
	Contact instructor or department for details.	
<i>Click here for more course information.</i>		

EXST049J Translation for Specific Domains; German into English/English into German Translation

Credits: 0 Grading Method:

PG01	Karen Riechert	Seats (Total: 16)
	W 5:30pm - 7:30pm	Location: TBA
<i>Restricted to students in GSIT program. Class will meet every other wee beginning January 27.</i>		

EXST049K Translation for Specific Domains; German Sight Translation

Credits: 0 Grading Method:

PG01	Karen Riechert	Seats (Total: 16)
	W 7:30pm - 8:30pm	Location: TBA
<i>Restricted to students in GSIT program. Class will meet every other wee beginning January 27.</i>		

EXST049L Translation for Specific Domains; Korean Sight Translation

Credits: 0 Grading Method:

PG01	Lee Boese	Seats (Total: 16)
	Sa 11:30am - 1:00pm	SKN 1112
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 30.</i>		
PG02	Yong-Ha Lee	Seats (Total: 16)
	M 12:00pm - 1:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 1.</i>		

EXST049M Translation for Specific Domains; Arabic Sight Translation

Credits: 0 Grading Method:

PG01	Mahmoud Elgibali	Seats (Total: 16)
	Th 9:00am - 11:00am	SKN 2127
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 4.</i>		

EXST049N Translation for Specific Domains; Chinese Sight Translation

Credits: 0 Grading Method:

PG01	Yu Tang	Seats (Total: 16)
	Th 6:30pm - 8:30pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 28.</i>		

EXST049O Translation for Specific Domains; French Sight Translation

Credits: 0 Grading Method:

PG01	Instructor: TBA	Seats (Total: 16)
Contact instructor or department for details.		
<i>Click here for more course information.</i>		

EXST049P Translation for Specific Domains; Spanish/English Sight Translation

Credits: 0 Grading Method:

PG01	Teresa Salazar	Seats (Total: 16)
	W 7:30pm - 8:30pm	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 27.</i>		
PG02	M Santangelo	Seats (Total: 16)
	Sa 11:00am - 12:00pm	SKN 3117
<i>Restricted to students in GSIT Program. Class will meet every other week beginning February 6.</i>		

EXST059A Translation for Language-Specific Markets; Arabic

Credits: 0 Grading Method: Regular,
Pass-Fail, Audit

PG01	Osama Sadick, Mark Green	Seats (Total: 16)
	Th 10:30am - 12:30pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 28.</i>		

EXST059B Translation for Language-Specific Markets; Spanish

Credits: 0 Grading Method: Regular,
Pass-Fail, Audit

PG01	Mariano De Anton, Joseph Mazza	Seats (Total: 16)
	Tu 7:00pm - 9:00pm	SKN 2127
<i>Restricted to students in GSIT Program. Class will meet every other week in PLS 1146; beginning January 26.</i>		
PG02	Instructor: TBA	Seats (Total: 16)
	Sa 12:00pm - 2:00pm	Location: TBA
<i>Restricted to students in GSIT Program. Class will meet every other week beginning January 30.</i>		

EXST155 UMD MCAT Preparation Program

Credits: 0 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

FGSM Federal and Global Semester Spring 2016

FGSM398 Federal and Global Experiential Learning

Credits: 3-9 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

This is the experiential course component of the Federal Fellows Program and Global Fellows Program.

Restriction: Permission of instructor. This is the experiential course component of the Federal Semester Program and Global Semester Program.

0101	Joan Burton, Jayakumar Arasan W 6:10pm - 7:20pm	Seats (Total: 60) SKN 0104
0201	Joan Burton, Jayakumar Arasan Th 6:10pm - 7:20pm	Seats (Total: 60) SKN 0104

FILM Film Studies Spring 2016

FILM245 Film Form and Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

Restriction: Must not have completed ENGL245. Also offered as: ENGL245. Credit only granted for: CMLT214, CMLT245, ENGL245, or FILM245. Formerly: CMLT214.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

0101	Eric Zakim TuTh 12:30pm - 1:20pm Th 3:30pm - 6:00pm F 10:00am - 10:50am	Seats (Total: 22) TWS 0320 TWS 0320 Lab TWS 0236 Discussion
0102	Eric Zakim TuTh 12:30pm - 1:20pm Th 3:30pm - 6:00pm F 12:00pm - 12:50pm	Seats (Total: 22) TWS 0320 TWS 0320 Lab TWS 0236 Discussion
0103	Eric Zakim TuTh 12:30pm - 1:20pm Th 3:30pm - 6:00pm F 1:00pm - 1:50pm	Seats (Total: 22) TWS 0320 TWS 0320 Lab TWS 0236 Discussion

0104	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 2:00pm - 2:50pm	TWS 0236	Discussion
0105	Eric Zakim	Seats (Total: 22)	
	TuTh 12:30pm - 1:20pm	TWS 0320	
	Th 3:30pm - 6:00pm	TWS 0320	Lab
	F 9:00am - 9:50am	TWS 0236	Discussion

FILM302

Cinema History II: The Sound Era

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283. Restriction: Must have permission of the Film Studies program.

Introduction to the international history of cinema from sound around 1930 to the present.

0101	Luka Arsenjuk	Seats (Total: 30)	
	MW 12:00pm - 1:50pm	HBK 0302H	

FILM319C

Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Capturing the Present: The Geopolitics of Contemporary Storytelling

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

0101	Mauro Resmini	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	HBK 0302H	

FILM329Q

Special Topics in National/International Cinemas; A Survey of Quebec Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as FREN398Q. Credit granted for FILM329Q or FREN398Q. Taught in English.

0101	Mercedes Baillargeon	Seats (Total: 30)
	MW 10:00am - 11:50am	HBK 0302J

FILM352 The Baddest Decade: The 1970s in American Film and American History

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HIST201. Also offered as: HIST304. Credit only granted for: FILM352 or HIST304.

The history of the United States and of its cinema in the 1970s.

0101	Saverio Giovacchini	Seats (Total: 40)
	W 4:00pm - 5:15pm	KEY 0103
	Class time/details on ELMs	ONLINE

FILM359E Special Topics in Genres/Auteurs/Cinema Movements; Hollywood in the Golden Age: 1930-1950

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Also offered as ENGL329E. Credit granted for ENGL329E or FILM359E. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department.

0101	Marianne Conroy	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	TWS 1107

FILM359Q Special Topics in Genres/Auteurs/Cinema Movements; The Cinema of Steven Spielberg

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Also offered as ENGL329R. Credit granted for ENGL329R or FILM359Q. Prerequisite: ENGL245, FILM245, FILM283, or SLLC283; or permission of department.

0101	Paul Cote	Seats (Total: 29)
	MW 10:00am - 11:50am	HBK 0302H

FILM388 Experiential Learning: Film Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Connects students' theoretical understanding of film studies, as obtained through the classroom, to professional experience.

Contact department for information to register for this course.

FILM429D Special Topics in National/International Cinemas; The Politics of French Film Comedies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as FREN499D. Credit granted for FREN499D or FILM429D. Taught in French.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 2123

FILM429N Special Topics in National/International Cinemas; Nazis, Terrorists, and Spies: Coming to Terms with the Past and Present in Recent German Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Also offered as GERM449N and GERM689N. Credit only granted for GERM449N, GERM669N, or FILM429N. Taught in English.

0101	Hester Baer	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	HBK 0302H
	Tu 3:30pm - 6:00pm	HBK 0302H Lab

FILM462 Realism and the Real in Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ENGL245, FILM245, SLLC283, or FILM283; or permission of instructor. Credit only granted for: FILM359R, SLLC368R or FILM462. Formerly: FILM359R/SLLC368R.

Exploration of the problem of realism, one of the most central theoretical issues in film studies.

0101	Elizabeth Papazian	Seats (Total: 30)	
	MW 2:00pm - 3:15pm	HBK 0302H	
	W 3:30pm - 6:00pm	HBK 0302H	Lab

FILM499 Directed Study in Film Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Readings and Research in Film Studies under faculty supervision.

Contact department for information to register for this course.

FIRE First-Year Innovation & Research Spring 2016

FIRE150 FIRE SEMESTER 2: Antibiotic Resistance

Credits: 3 Grading Method: Regular General Education: DSNS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Antibiotic Research research stream.

Restricted to students in the FIRE program.

0101	Liang-Chun Wang	Seats (Total: 35)	
	M 10:00am - 10:50am	KEB 1200	
	Contact instructor or department for details.		

FIRE151 FIRE SEMESTER 2: Sustainability Analytics

Credits: 3 Grading Method: Regular General Education: DSHS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Sustainability Analytics research stream.

Restricted to students in the FIRE program.

0101	Ian Page	Seats (Total: 35)
	M 10:00am - 10:50am	ITV 1100
	Contact instructor or department for details.	

FIRE152 FIRE SEMESTER 2: Environmental Pathogens

Credits: 3 Grading Method: Regular General Education: DSNS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Environmental Pathogens research stream.

Restricted to students in the FIRE program.

0101	Jennifer German	Seats (Total: 35)
	M 11:00am - 11:50am	ITV 1100
	Contact instructor or department for details.	

FIRE153 FIRE SEMESTER 2: Found In Translation

Credits: 3 Grading Method: Regular General Education: DSNS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Found In Translation research stream.

Restricted to students in the FIRE program.

0101	Vivek Advani	Seats (Total: 35)
	M 12:00pm - 12:50pm	ITV 1100
	Contact instructor or department for details.	

FIRE154 FIRE SEMESTER 2: Risk Communication & Resilience

Credits: 3 Grading Method: Regular General Education: DSHS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Risk Communication and Resilience research stream.

Restricted to students in the FIRE program.

0101	Michael Egnoto	Seats (Total: 35)
	M 1:00pm - 1:50pm	ITV 1111
	Contact instructor or department for details.	

FIRE155 FIRE SEMESTER 2: Terrapin Genome Project

Credits: 3 Grading Method: Regular General Education: DSNS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Terrapin Genome Project research stream.

Restricted to students in the FIRE program.

0101	Amy Voltz	Seats (Total: 35)
	M 1:00pm - 1:50pm	ITV 1100
	Contact instructor or department for details.	

FIRE157 FIRE SEMESTER 2: Addiction Science

Credits: 3 Grading Method: Regular General Education: DSHS

Recommended: FIRE120.

FIRE SEMESTER 2 course for students in the FIRE program joining the Addiction Science research stream.

Restricted to students in the FIRE program.

0101	Cristina Risco	Seats (Total: 35)
	M 2:00pm - 2:50pm	CHM 0119
	Contact instructor or department for details.	

FIRE160 FIRE SEMESTER 2: Transgenerational Brain Initiative

Credits: 3 Grading Method: Regular General Education: DSNS

Recommended: FIRE120. Restriction: Must be in the program FIRE.

FIRE SEMESTER 2 course for students in the FIRE program joining the Transgenerational Brain Initiative research stream.

0101	Yun Choi	Seats (Total: 35)
	W 11:00am - 11:50am	EGR 0135
	Contact instructor or department for details.	

FIRE162**FIRE SEMESTER 2: Once and Future Planet**

Credits: 3

Grading Method: Regular

General Education: DSNS

*Recommended: FIRE120. Restriction: Must be in the program FIRE.**FIRE SEMESTER 2 course for students in the FIRE program joining the Once and Future Planet research stream.*

0101	Alan Kaufman	Seats (Total: 20)
	F 12:00pm - 2:50pm	GEO 2106

FIRE163**FIRE SEMESTER 2: Animal and Human Relationships**

Credits: 3

Grading Method: Regular

General Education: DSHS

*Recommended: FIRE120. Restriction: Must be in the program FIRE.**FIRE SEMESTER 2 course for students in the FIRE program joining the Animal and Human Relationships research stream.*

0101	Sarah Racz	Seats (Total: 35)
	W 9:00am - 9:50am	EGR 0135
	Contact instructor or department for details.	

FIRE164**FIRE SEMESTER 2: Autonomous Unmanned Systems**

Credits: 3

Grading Method: Regular

General Education: DSNS

*Recommended: FIRE120. Restriction: Must be in the program FIRE.**FIRE SEMESTER 2 course for students in the FIRE program joining the Autonomous Unmanned Systems research stream.*

0101	Derrick Yeo	Seats (Total: 35)
	W 10:00am - 10:50am	EGR 0135
	Contact instructor or department for details.	

FIRE308**FIRE SEMESTER 4: Leadership & Peer Mentoring**

Credits: 1-3

Grading Method: Regular

An overview of the fundamentals of leadership and peer mentoring for research environments.

0101	Jennifer German	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

FIRE SEMESTER 4: Next-Step Acceleration

Credits: 1 Grading Method: Regular

0101	Ian Page, Amy Voltz	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

Spring 2016

Future of Families: Issues and Controversies

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, SCIS
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Examination of current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.

0101	Elise Resnick	Seats (Total: 50)
	Th 3:30pm - 6:00pm	SPH 1302

Couple Relationships

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Couple relationships and their alternatives in contemporary dating, courtship and marriage.

Restricted to majors or non-majors with less than or equal to 60 credits.

0101	Elise Resnick	Seats (Total: 65)
	TuTh 2:00pm - 3:15pm	SPH 1301

Global, Child & Family Health: Getting There Via E-Communications

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, SCIS
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Credit only granted for: FMSC280 or FMSC289G. Formerly: FMSC289G.

Students will learn about global maternal, child and family health issues and how these issues may affect their lives. Interdisciplinary teams of students will collaborate to develop programs aimed at improving global family health through the use of information and communications technologies.

0101	Elisabeth Maring	Seats (Total: 65)
	TuTh 9:30am - 10:45am	CCC 1205

FMSC290 Family Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.

Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.

Restricted to majors or non-majors with less than or equal to 60 credits.

0101	Manouchehr Mokhtari	Seats (Total: 70)
	TuTh 5:00pm - 6:15pm	SPH 1312

FMSC302 Research Methods in Family Science

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DSSP

Prerequisite: Must have completed an introductory statistics course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC302 or FMST302. Formerly: FMST302.

Introduction to the methods of the social and behavioral sciences employed in family science. The role of theory, the development of hypotheses, measurement, design, and data analysis.

0101	Andrew Williams	Seats (Total: 75)
	TuTh 9:30am - 10:45am	SPH 1303

FMSC330 Family Theories and Patterns

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DVUP

Restriction: Junior standing or higher. Credit only granted for: FMSC330 or FMST330. Formerly: FMST330.

Theory and research on the family, including a cross-cultural analysis of family patterns.

0101	Robyn Zeiger MWF 12:00pm - 12:50pm	Seats (Total: 65) SPH 1301
0201	Mia Smith-Bynum TuTh 9:30am - 10:45am	Seats (Total: 65) SPH 1301
0301	Mia Smith-Bynum TuTh 8:00am - 9:15am	Seats (Total: 65) SPH 1301

FMSC332**Children in Families**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSHS

Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.

A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.

0101	Amy Lewin TuTh 9:30am - 10:45am	Seats (Total: 60) TYD 2109
0201	Amy Lewin TuTh 12:30pm - 1:45pm	Seats (Total: 60) SPH 1301
0301	Yoonjoo Lee MWF 10:00am - 10:50am	Seats (Total: 60) SPH 1301
0401	Christine Schull MWF 8:00am - 8:50am	Seats (Total: 60) SPH 1303

FMSC341**Personal and Family Finance**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

0101	Manouchehr Mokhtari TuTh 6:30pm - 7:45pm	Seats (Total: 60) SPH 1312
SG91	William Knight M 2:00pm - 4:40pm <i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting, International Business, Marketing and to Senior BMGT-Shady Grove students majoring in Management. Other students may request enrollment on a space available basis.</i>	Seats (Total: 60) BLD2 2032
SG92	William Knight M 10:00am - 12:15pm <i>Restricted to Shady Grove Students in the Public Health Science Major.</i>	Seats (Total: 40) Location: TBA

FMSC381

Poverty, Affluence, and Families

Credits: 3 Grading Method: Regular, Pass-Fail, D General Education: DSHS, DVUP

Prerequisite: SOCY100 or SOCY105. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC381 or FMST381. Formerly: FMST381.

Social, political, cultural and economic factors influencing income and wealth in American families.

0101	John Hart MWF 9:00am - 9:50am	Seats (Total: 60) SPH 1301
0201	Allison Schroeder TuTh 3:30pm - 4:45pm	Seats (Total: 60) SPH 1301

FMSC383

Delivery of Human Services to Families

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC383 or FMST383. Formerly: FMST383.

Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.

0101	Marian Jones MWF 11:00am - 11:50am	Seats (Total: 65) SPH 1303
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FMSC399**Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

FMSC410**Maternal, Child and Family Health**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: FMSC410 or FMSC498A. Formerly: FMSC498A.

Overview of major issues, policies, and programs related to the health of women, children, and their families in the United States. Review of social, political, and economic determinants of maternal and child health and health disparities. Use of epidemiological methods and data to identify best practices for guiding maternal and child health policy and practice.

0101	Alyssa Brooks, Diana Cassar-Uhl MWF 9:00am - 9:50am	Seats (Total: 45) SPH 0302
0201	Edmond Shenassa TuTh 3:30pm - 4:45pm	Seats (Total: 50) SPH 0302
0301	Julia Steinberg TuTh 11:00am - 12:15pm	Seats (Total: 50) SPH 0302

FMSC431**Family Crises and Intervention**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100. Credit only granted for: FMSC431 or FMST431. Formerly: FMST431.

Family crises such as divorce, disability, substance abuse, financial problems, intra-familial abuse, and death. Theories and techniques for intervention and enhancement of family coping strategies.

0101	Robyn Zeiger MWF 1:00pm - 1:50pm	Seats (Total: 50) SPH 1303
0201	Elizabeth Parker TuTh 11:00am - 12:15pm	Seats (Total: 50) SPH 1302

FMSC432**Adult Development and Aging in Families**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.

Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.

0101	Jacqueline Wallen	Seats (Total: 50)
	MWF 10:00am - 10:50am	SPH 0302
0201	Jacqueline Wallen	Seats (Total: 50)
	MWF 12:00pm - 12:50pm	SPH 0302

FMSC460 Violence in Families

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

0101	Christine Schull	Seats (Total: 60)
	MWF 9:00am - 9:50am	SPH 1303

FMSC477 Internship and Analysis in Family Science

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.

A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.

[Click here for Application Deadlines and additional details..](#)

0101	Breanna Davis	Seats (Total: 90)
	W 3:30pm - 5:00pm	BPS 1243
	Contact instructor or department for details.	
0201	Zainab Okolo	Seats (Total: 10)
	W 3:30pm - 5:00pm	Location: TBA
	Contact instructor or department for details.	

FMSC487 Legal Aspects of Family Problems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: FMSC487 or FMST487. Formerly: FMST487.

Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.

0101	Kerry Tripp	Seats (Total: 65)
	TuTh 11:00am - 12:15pm	SPH 1303

FMSC498 Special Topics: Family Science; Family Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498H Special Topics: Family Science; Family Studies Honors Thesis

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special course topics in family studies.

Contact department for information to register for this course.

FMSC498M Special Topics: Family Science; Theory and Techniques of Family Mediation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special course topics in family studies.

Introduction to family mediation as an approach to helping families deal effectively with the issues associated with separation and divorce. Theory, practice, and techniques of negotiation, with an emphasis on custody, property division, and constructive restructuring of family relationships.

0101	Kerry Tripp	Seats (Total: 40)
	Th 12:30pm - 3:15pm	SPH 1302

FMSC610 Research Methods in Family Science

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: EDMS645; or students who have taken courses with comparable content may contact the department. Credit only granted for: FMSC610 or FMST610. Formerly: FMST610.

Research methods in family science. The role of theory, design, use of qualitative and quantitative measurement techniques, data collection and data analysis. Development of research proposals.

0101	Mona Mittal	Seats (Total: 15)
	Th 1:00pm - 3:45pm	Location: TBA

FMSC642 Normal and Abnormal Individual and Family Development

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: FMSC640. Credit only granted for: FMSC642 or FMST642. Formerly: FMST642.

Normal development and psychopathology in the family system. Emphasis on parent-child relationships and application of the current Diagnostic and Statistical Manual of Mental Disorders (DSM) to family therapy.

0101	Leigh Leslie	Seats (Total: 15)
	Tu 1:00pm - 3:45pm	Location: TBA

FMSC647 Theory and Techniques of Family Mediation

Credits: 3 Grading Method: Regular,
 Audit

Credit only granted for: FMSC647 or FMST647. Formerly: FMST647.

An introduction to family mediation as an approach to helping families deal effectively with the issues associated with separation and divorce. Theory, practice, and techniques of negotiation, with an emphasis on custody, property division, and the constructive restructuring of family relationships.

0101	Kerry Tripp	Seats (Total: 40)
	Th 12:30pm - 3:15pm	SPH 1302

FMSC651

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: FMSC650. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC651 or FMST651. Formerly: FMST651.

Diagnosis and treatment of psychopathology within the family context, with application of various family therapy models.

0101	Mona Mittal	Seats (Total: 15)
	Tu 9:00am - 11:45am	Location: TBA
	Contact instructor or department for details.	

FMSC653

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: FMSC652. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC653 or FMST653. Formerly: FMSC653.

Advanced application and integration of family therapy skills and theoretical models in the practice of marriage and family therapy. Emphasis on treatment plans from different therapeutic models demonstrated in case presentations and supervision of therapy.

0101	Carol Werlinich	Seats (Total: 15)
	Tu 9:00am - 11:45am	Location: TBA
	Contact instructor or department for details.	

FMSC658

(Perm req)

Credits: 2 Grading Method: Regular, Audit

The supervision of marriage and family therapy client contact. Various family systems models of supervision applied via extant methods, including live, videotaped, and audiotaped.

Prerequisite: FMST650 or FMSC653 and permission of instructor.

0101	Carol Werlinich	Seats (Total: 11)
	W 9:00am - 12:00pm	Location: TBA
0201	Leigh Leslie	Seats (Total: 11)
	W 9:00am - 12:00pm	Location: TBA

Review of key issues on the frontier of maternal and child health research and practice within broad public health and socio-cultural context. Examines current maternal and child health issues such as ethics, child and family health, health and socioeconomic disparities, child nutrition and obesity, military family health, and global health.

Contact department for information to register for this course.

FMSC745 Gender and Ethnicity in Family Therapy and Service Delivery

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: FMSC745 or FMST745. Formerly: FMST745.

Major critiques of sources of racial, cultural, and gender bias in marital and family therapy and family service delivery. Addresses these issues in program development and clinical practice.

0101	Leigh Leslie	Seats (Total: 10)
	Th 9:00am - 11:45am	Location: TBA

FMSC760 Legal Issues & Families

Credits: 3 Grading Method: Regular

Credit only granted for: FMSC760 or FMST760. Formerly: FMST760.

Analysis of marriage and family issues from a legal perspective. Review of legal decisions affecting families, including procreative rights, marriage, termination of marriage, parental and child rights, adoption, child custody, and child/family medical treatment. Relationship between family law and family policy.

0101	Kerry Tripp	Seats (Total: 15)
	W 9:00am - 11:45am	Location: TBA

FMSC780 Qualitative Methods in Family and Health Research

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: FMSC780 or FMST780. Formerly: FMST780.

Theoretical perspectives and methodological tools to conduct research with individuals and families across the life span. Review of research designs, participant fieldwork, observation and interview projects, data collection, computer-assisted data analysis, and development of grounded theory.

0101	Kevin Roy	Seats (Total: 15)
	M 11:00am - 1:45pm	Location: TBA

FMSC789**Non-Thesis Research**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit*Non-thesis option research papers.***Contact department for information to register for this course.**

FMSC799**Master's Thesis Research**

(Perm req)

Credits: 1-6

Grading Method: Regular

Must have written permission of faculty member and chairperson.

Contact department for information to register for this course.

FMSC810**Theory in Family Systems and Family Health**

Credits: 3

Grading Method: Regular,
Audit*Restriction: Permission of instructor. Credit only granted for: FMSC810, FMST698P, or FMST810. Formerly: FMST810.**Theory and research on family interaction and family coping with normative health and mental health transitions and non-normative crises across the family life cycle. Micro-analysis of family process in communication, decision-making, problem-solving, and compliance to health regimens. Examination of dysfunctional patterns and effective coping strategies.***Contact department for information to register for this course.**

FMSC879**Preparing Future Faculty and Professionals Seminar**

Credits: 1

Grading Method: Regular

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.

0101	Elaine Anderson, Sally Koblinsky	Seats (Total: 25)
	W 1:00pm - 1:50pm	Location: TBA

FMSC898**Pre-Candidacy Research**

Credits: 1-8

Grading Method: Regular, Sat-
Fail**Contact department for information to register for this course.**

FMSC899**Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

FOLA**Foreign Language****Spring 2016****FOLA158X****Directed Study of a Foreign Language (Intensive) I; Elementary Intensive Urdu**

(Perm req)

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

*Intensive directed study of a modern foreign language with use of a self-instructional approach.
Equivalent to FOLA138 plus FOLA139.*

Students may register for FOLA158X or FOLA158P, not both.

0101	Naime Yaramanoglu	Seats (Total: 9)	
	W 6:30pm - 9:30pm	JMZ 3120	Lab
	Contact instructor or department for details.		

FOLA159X**Directed Study of a Foreign Language (Intensive) II; Intermediate Intensive Urdu**

(Perm req)

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

A continuation of FOLA158. Equivalent to FOLA148 plus FOLA149.

Prerequisite: FOLA158X or consent of program director.

0101	Naime Yaramanoglu	Seats (Total: 10)	
	Th 6:30pm - 9:30pm	JMZ 3120	Lab
	Contact instructor or department for details.		

FOLA386**Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.
Restriction: Junior standing or higher.*

Contact department for information to register for this course.

FREN**French****Spring 2016**

FREN103**Intensive Elementary French**

Credits: 4 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Lindsey Reinstrom	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 2122
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL02	Alex Joensen	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 1122
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL03	Alex Joensen	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 1117
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

FREN203**Intensive Intermediate French**

Credits: 4 Grading Method: Regular, CORE: HO
 Pass-Fail, Audit

Prerequisite: FREN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.

Covers speaking, reading, writing, listening, and culture of French-speaking world.

BL01	Cae Joseph-Massena	Seats (Total: 25)
	MW 10:00am - 10:50am	JMZ 2123
	F 10:00am - 10:50am	JMZ 1120
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

BL02	Charlee Redman	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 3120
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL03	Francesca Roth	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 2123
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		
BL04	Jillian Bruns	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 1215
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

FREN204

French Grammar and Composition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

Prerequisite: FREN201 or FREN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to native/fluent speakers of French.

Intensive study of French grammar and composition.

0301	Nathan Dize	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 0120
BL01	Meghan Cleereman	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0120
	Class time/details on ELMs	ONLINE
BL02	Daniel Bowman	Seats (Total: 25)
	MWF 11:00am - 11:50am	KEY 0120
	Class time/details on ELMs	ONLINE

FREN211

French Reading and Conversation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.

Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.

Contact department for information to register for this course.

FREN241 Women Writers of French Expression in Translation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL, D General Education: DSHU

Works and ideas of 20th century women writers of French in Canada, Africa, the Caribbean and France. Taught in English.

Contact department for information to register for this course.

FREN250 Introduction to Cultural and Textual Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

Also offered as FREN250H. Credit granted for FREN250 or FREN250H.

0101	Morgan McMahon	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 1120
0201	Morgan McMahon	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1120

FREN250H Introduction to Cultural and Textual Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.

Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.

For general honors students only. Also offered as FREN250. Credit granted for FREN250 or FREN250H.

0101	Morgan McMahon MWF 11:00am - 11:50am	Seats (Total: 25) JMZ 1120
0201	Morgan McMahon MWF 1:00pm - 1:50pm	Seats (Total: 25) JMZ 1120

FREN269C Special Topics in Study Abroad II; La Chason Francaise: Then and Now

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269F Special Topics in Study Abroad II; French Conversation I

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269G Special Topics in Study Abroad II; French Conversation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269L Special Topics in Study Abroad II; LANGUAGE AND CINEMA

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269P Special Topics in Study Abroad II; Perspectives on Contemporary France

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN269Z**Special Topics in Study Abroad II; Third-Year French II**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN301**Composition and Style**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Grammatical analysis, elements of style; range of written genres.

0101	Sarah Benharrech	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMZ 2117
	Contact instructor or department for details.	
0201	Catherine Favier-Kelly	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2207
	Contact instructor or department for details.	

FREN302**Translation: French to English**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Practicum in translation primarily from French to English; contrastive analysis.

0101	Carol Mossman	Seats (Total: 20)
	MW 2:00pm - 3:15pm	JMZ 2117

FREN306**Commercial French I**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

Introduction to commercial French including correspondence and business terminology. Emphasis on cross-cultural concepts needed for successful interaction within business settings. Taught in French.

Contact department for information to register for this course.

FREN311 Advanced Oral Expression

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.

BL01	Sarah Benharrech	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 3120
	Class time/details on ELMs	ONLINE
<i>Blended Learning courses combine face-to-face and online interactions.</i>		

FREN312 France Today

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.

Analysis and discussion of current events and institutions using various French media resources.

Contact department for information to register for this course.

FREN351 From Romanticism to the Age of Modernism and Beyond

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.

Contact department for information to register for this course.

FREN352 From the Age of Epic and Romance to the Enlightenment

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.

Also offered as FREN352H. Credit granted for FREN352 or FREN352H.

0101	Andrea Frisch	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 3203

FREN352H From the Age of Epic and Romance to the Enlightenment

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.

A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.

For general honors students only. Also offered as FREN352. Credit granted for FREN352 or FREN352H.

0101	Andrea Frisch	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 3203

FREN369F Special Topics in Study Abroad III; Third-Year French I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369G Special Topics in Study Abroad III; Third-Year French II

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN369Y Special Topics in Study Abroad III; Fourth-Year French I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

FREN386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.
Restriction: Junior standing or higher.

Contact department for information to register for this course.

FREN398Q Special Topics in French and Francophone Studies; A Survey of Quebec Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Repeatable to 6 credits if content differs. Topic and language of instruction to be announced when offered.

Also offered as FILM329Q. Credit granted for FILM329Q or FREN398Q. Taught in English.

0101	Mercedes Baillargeon	Seats (Total: 30)
	MW 10:00am - 11:50am	HBK 0302J

FREN399 Directed Study in French

(Perm req)

Credits: 1-3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Supervised work under professor of student's choice with permission of instructor. Contact department for details.

Contact department for information to register for this course.

FREN399A Directed Study in French

Credits: 3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN399B Directed Study in French; Directed Study in Nice II

Credits: 1-3 Grading Method: Regular

Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.

Contact department for information to register for this course.

FREN401 Writing with Style

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN301; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Advanced composition and stylistic analysis.

0101	Mercedes Baillargeon	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2207

FREN495H Honors Thesis Research

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be admitted to the departmental honors program.

The writing of a paper under the direction of a professor in this department and an oral examination. Required to fulfill the departmental honors requirement.

Contact department for information to register for this course.

FREN498G Special Topics in French Literature; Gender and Identity in Film and Literature of the French-Speaking World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: FREN 351 or 352 or equivalent. Taught in French.

0101	Valerie Orlando	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMZ 3205

FREN499 Special Topics in French Studies

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN499D Special Topics in French Studies; The Politics of French Film Comedies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Also offered as FILM429D. Credit granted for FREN499D or FILM429D. Taught in French.

0101	Caroline Eades	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 2123

FREN499W Special Topics in French Studies; Introduction to Global Digital Humanities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

This course is not eligible for major or minor credit. Also offered as GERM489W, HEBR498W, JAPN498W, and SLLC499W. Credit granted for FREN499W, GERM489W, HEBR498W, JAPN498W, or SLLC499W. Opens a "global" window on the field of Digital Humanities (DH) and its computational tools. We will both constructively problematize the Euro-American centrism of the dominant DH framework and work through some of the technical challenges of developing a more global DH. Students interested in theoretical debates within DH, practical applications of DH methods to various humanities disciplines (literature, history, political science, etc.), or the purely technical dimensions of DH work (coding, statistics, etc.) are all equally welcome.

0101	Matthew Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	Location: TBA

FREN499X Special Topics in French Studies; Directed Study in FRENCH

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An aspect of French studies, the specific topic to be announced each time the course is offered.

Contact department for information to register for this course.

FREN699F Seminar; From Romanticism to Decadence: the French Novel

Topic to be determined each semester.

0101	Carol Mossman	Seats (Total: 10)
	W 5:00pm - 7:30pm	JMZ 2206

FREN699G Seminar; Figuration, Disfiguration, Transfiguration: Contemporary Readings of Myth

Credits: 3 Grading Method: Regular,
Audit

Topic to be determined each semester.

Taught in French.

0101	Caroline Eades	Seats (Total: 10)
	Th 4:30pm - 7:15pm	JMZ 2120

FREN798 Master's Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

FREN799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

FREN889 Doctoral Independent Study

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

FREN898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

FREN899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEMS102**Research Topic Exploration and Team Formation**

Credits: 1

Grading Method: Regular

Restriction: Must be in the Gemstone program.

Under the guidance of staff and visiting speakers, students will develop research topics that they will pursue for the remainder of their participation in the Gemstone program, and form into interdisciplinary teams around these topics.

0101	Kristan Skendall	Seats (Total: 180)
	Th 5:00pm - 6:00pm	EGR 1202

GEMS104**Topics in Science, Technology and Society (STS)**

Credits: 3

Grading Method: Regular,
Audit

CORE: IE

General Education: DSHS,
DSHU, DSSP, SCIS*Prerequisite: GEMS100. Restriction: Must be in the Gemstone program.*

An examination of how cultural, economic, political and social forces shape scientific and technological systems and, conversely, how scientific and technological systems have affected the culture, economies, organization and politics of societies. Students in the course will form small teams to carry out semester-long research on socio/technical topics related to the course theme chosen for that specific semester.

0101	Leah Kreimer Tobin, Frank Coale	Seats (Total: 11)
	Tu 5:00pm - 6:15pm	EGR 1202
	W 1:00pm - 2:15pm	ELL 0100A Discussion
0102	Frank Coale, Leah Kreimer Tobin	Seats (Total: 11)
	Tu 5:00pm - 6:15pm	EGR 1202
	W 12:00pm - 1:15pm	ELL 0100B Discussion
0103	Frank Coale, Leah Kreimer Tobin	Seats (Total: 11)
	Tu 5:00pm - 6:15pm	EGR 1202
	W 3:00pm - 4:15pm	ELL 0100D Discussion
0104	Frank Coale, Leah Kreimer Tobin	Seats (Total: 11)
	Tu 5:00pm - 6:15pm	EGR 1202
	Th 11:00am - 12:15pm	ELL 0100A Discussion

0105	Frank Coale, Leah Kreimer Tobin Tu 5:00pm - 6:15pm Th 9:30am - 10:45am	Seats (Total: 11) EGR 1202 ELL 0100D	Discussion
0106	Frank Coale, Leah Kreimer Tobin Tu 5:00pm - 6:15pm Th 2:00pm - 3:15pm	Seats (Total: 11) EGR 1202 ELL 0100D	Discussion
0107	Leah Kreimer Tobin, Frank Coale Tu 5:00pm - 6:15pm F 10:00am - 11:15am	Seats (Total: 11) EGR 1202 ELL 0100A	Discussion
0108	Leah Kreimer Tobin, Frank Coale Tu 5:00pm - 6:15pm F 4:00pm - 5:15pm	Seats (Total: 11) EGR 1202 ELL 0100B	Discussion
0109	Leah Kreimer Tobin, Frank Coale Tu 5:00pm - 6:15pm F 12:00pm - 1:15pm	Seats (Total: 11) EGR 1202 ELL 0100B	Discussion
0110	Frank Coale, Leah Kreimer Tobin Tu 5:00pm - 6:15pm W 11:00am - 12:15pm	Seats (Total: 11) EGR 1202 ELL 0100A	Discussion
0111	Leah Kreimer Tobin, Frank Coale Tu 5:00pm - 6:15pm Th 11:00am - 12:15pm	Seats (Total: 11) EGR 1202 ELL 0100B	Discussion
0112	Leah Kreimer Tobin, Frank Coale Tu 5:00pm - 6:15pm F 2:00pm - 3:15pm	Seats (Total: 11) EGR 1202 ELL 0100A	Discussion

GEMS208E

Special Topics in Leadership and Team Development; Research Topic Exploration Teaching Freshmen First Time Section Leader

Credits: 1-3

Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Kristan Skendall	Seats (Total: 13)
Contact instructor or department for details.		

GEMS208F Special Topics in Leadership and Team Development; Research Topic Exploration Teaching Freshmen: Returner Section Leader

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

Restricted to Gemstone Students.

0201	Kristan Skendall	Seats (Total: 11)
Contact instructor or department for details.		

GEMS208G Special Topics in Leadership and Team Development; Science, Technology and Society Teaching Freshmen First Time Section Leader

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Leah Kreimer Tobin	Seats (Total: 13)
Contact instructor or department for details.		

GEMS208I Special Topics in Leadership and Team Development; Science, Technology & Society Teaching Freshman, Returnee Section Leader

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Leah Kreimer Tobin	Seats (Total: 14)
Contact instructor or department for details.		

GEMS208J**Special Topics in Leadership and Team Development; Gems Camp**

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Jessica Lee	Seats (Total: 14)
Contact instructor or department for details.		

GEMS208K**Special Topics in Leadership and Team Development; GEMS Connect**

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Leah Kreimer Tobin	Seats (Total: 30)
Contact instructor or department for details.		

GEMS208L**Special Topics in Leadership and Team Development; GEMS GSC Executive Board**

Credits: 1-3 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Jessica Lee	Seats (Total: 6)
Contact instructor or department for details.		

GEMS208T**Special Topics in Leadership and Team Development; Thesis Conference Planning Team**

Credits: 1 Grading Method: Regular,
Audit

Principles, methods and types of leadership and team development with a emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.

0101	Leah Kreimer Tobin, Kristan Skendall	Seats (Total: 7)
	Contact instructor or department for details.	

GEMS296

Team Project Seminar I

Credits: 1 Grading Method: Regular

Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS202. Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the first of six seminars during which Gemstone students carry out multidisciplinary research with the guidance of a faculty mentor. The teams develop their working relationship, start their literature search, define their research question, and set short & long term goals.

0101	Kristan Skendall	Seats (Total: 5)
	Contact instructor or department for details.	
0102	Kristan Skendall	Seats (Total: 5)
	Tu 6:35pm - 7:35pm	ELL 0100B
0208	Kristan Skendall	Seats (Total: 5)
	Contact instructor or department for details.	

GEMS297

Team Project Seminar II

Credits: 2 Grading Method: Regular

Restriction: Must be in the Gemstone program with sophomore standing in a research team.

This is the second of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team develops its website, prepares and presents its research proposal and begins its research project.

Restricted to Gemstone Students.

0101	Anil Deane	Seats (Total: 14)
	W 5:30pm - 6:30pm	JMZ 1123
	M 6:00pm - 6:50pm	JMZ 1123
0102	Siddhartha Das	Seats (Total: 14)
	Tu 7:00pm - 8:00pm	ELL 0100B
	M 5:30pm - 6:30pm	Location: TBA

0103	David Zajic W 6:00pm - 6:50pm Tu 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA Location: TBA
0104	William Bentley M 5:15pm - 6:15pm W 6:15pm - 7:15pm	Seats (Total: 14) CHE 2116 ELL 0100D
0105	Nam Sun Wang TuTh 8:00am - 8:50am	Seats (Total: 14) BPS 1234
0106	Steven Cohan, Andrew Ristvey Tu 5:30pm - 6:30pm F 12:00pm - 12:50pm	Seats (Total: 14) PLS 1146 PLS 1146
0107	Bryan Quinn Tu 7:00pm - 7:50pm Th 5:00pm - 5:50pm	Seats (Total: 14) ELL 0100D Location: TBA
0108	Ben Woodard Tu 5:00pm - 5:50pm F 10:00am - 10:50am	Seats (Total: 14) JMZ 1117 JMZ 3118
0109	Steven Jay W 8:00am - 8:50am Th 8:00pm - 8:50pm	Seats (Total: 14) HBK 0123 CSS 0201
0110	Debabrata Biswas M 4:00pm - 4:50pm F 4:00pm - 4:50pm	Seats (Total: 14) Location: TBA Location: TBA
0111	Mark Fuge Tu 8:00am - 8:50am M 5:00pm - 5:50pm	Seats (Total: 14) ELL 0100D SPH 0303
0112	Yanjin Zhang M 5:30pm - 6:30pm Th 6:30pm - 7:30pm	Seats (Total: 14) BPS 1232 PLS 1168
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS396**Team Project Seminar III**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.

0103	Kristan Skendall	Seats (Total: 5)
	Contact instructor or department for details.	

GEMS397**Team Project Seminar IV**

Credits: 2 Grading Method: Regular

Prerequisite: GEMS396. Restriction: Must be in the Gemstone program with junior standing in a research team.

This is the fourth of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team further develops its website. Also they will prepare and present the team project in the poster session of Undergraduate Research Day.

Restricted to Gemstone Students.

0101	Joseph Sullivan	Seats (Total: 14)
	M 6:30pm - 7:25pm	Location: TBA
	M 7:30pm - 8:30pm	Location: TBA
0102	Jon Hoffman	Seats (Total: 14)
	Tu 5:00pm - 7:00pm	HBK 0108
0103	Ricardo Araneda	Seats (Total: 14)
	M 5:10pm - 5:55pm	Location: TBA
	M 6:00pm - 6:50pm	Location: TBA
0104	Jose Aranda-Espinoza	Seats (Total: 14)
	M 6:30pm - 7:20pm	PLS 1172
	F 12:00pm - 12:50pm	PLS 1172
0105	Frank Coale	Seats (Total: 14)
	W 12:00pm - 12:50pm	EGR 1110
	Th 5:00pm - 5:50pm	ELL 0100D

0106	Susan Dwyer M 6:30pm - 7:30pm M 7:30pm - 8:30pm	Seats (Total: 14) JMZ 0118 JMZ 1120
0107	Volker Briken M 5:00pm - 7:00pm	Seats (Total: 14) Location: TBA
0108	Liangbing Hu Tu 5:00pm - 5:50pm Th 7:00pm - 7:50pm	Seats (Total: 14) JMZ 0205 Location: TBA
0109	Bao Yang Th 5:30pm - 6:30pm Tu 5:00pm - 5:50pm	Seats (Total: 14) Location: TBA JMZ 1103
0110	Anil Deane W 6:30pm - 7:30pm Tu 6:30pm - 7:30pm	Seats (Total: 14) Location: TBA Location: TBA
0111	Matthew Roesch M 8:00am - 8:50am Tu 6:30pm - 7:30pm	Seats (Total: 14) BPS 1234 TYD 1108
0112	Adam Hsieh Tu 6:00pm - 8:00pm	Seats (Total: 14) ASY 3219
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEMS496

Project Writing Seminar

Credits: 2

Grading Method: Regular

Prerequisite: GEMS397. Restriction: Must be in the Gemstone program.

This is the fifth of six seminars during which Gemstone students carry out research with the guidance of a faculty mentor. The team finishes the analysis of their data and writes and edits its team thesis.

0101	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)
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GEMS497

Team Thesis Defense

Credits: 2

Grading Method: Regular

General Education: DSSP

*Prerequisite: GEMS396. Restriction: Must be in the Gemstone program.**Gemstone teams will complete the team research project and thesis. The team will formally present the thesis to experts in the area of interest at a Team Thesis Conference before final submission.*

Restricted to Gemstone Students.

0101	Thomas Castonguay M 9:00am - 9:50am Tu 9:30pm - 10:30pm	Seats (Total: 14) MMH 3216 SQH 1125
0102	Zhengguo Xiao M 4:30pm - 5:30pm Th 6:00pm - 6:50pm	Seats (Total: 14) BPS 1236 Location: TBA
0103	Kara Duffy M 7:00pm - 7:50pm W 6:10pm - 7:00pm	Seats (Total: 14) SQH 2113 SQH 2113
0104	Robert Newcomb Tu 6:40pm - 7:30pm Tu 7:40pm - 8:30pm	Seats (Total: 14) CSI 2118A CSI 2118A
0105	Jonathan Dinman W 5:00pm - 5:50pm W 6:00pm - 6:50pm	Seats (Total: 14) Location: TBA Location: TBA
0106	Silvia Muro Th 4:00pm - 4:50pm Tu 7:00pm - 7:50pm	Seats (Total: 14) Location: TBA Location: TBA
0107	Marcio Oliveira Th 5:00pm - 5:50pm Th 6:00pm - 6:50pm	Seats (Total: 14) PTX 0120 PTX 0120
0108	Richard Yi Tu 8:00pm - 8:50pm Th 6:00pm - 6:50pm	Seats (Total: 14) JMZ 1103 Location: TBA
0109	Ramani Duraiswami W 9:45am - 10:45am M 9:45am - 10:45am	Seats (Total: 14) AVW 3450 AVW 3450

0110	Steven Anlage M 5:30pm - 6:30pm Tu 1:00pm - 1:50pm	Seats (Total: 14) Location: TBA Location: TBA
0111	Thomas Miller M 1:00pm - 1:50pm W 7:00pm - 7:50pm	Seats (Total: 14) PLS 1158 PLS 1158
0112	Aravind Srinivasan W 10:00am - 10:50am Tu 5:30pm - 7:00pm	Seats (Total: 14) EGR 1102 LEF 1221
0113	Kristan Skendall Contact instructor or department for details.	Seats (Total: 5)

GEOG Geographical Sciences Spring 2016

GEOG130

Developing Countries

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DSSP

An introduction to the geographic characteristics of the development problems and prospects of developing countries. Spatial distribution of poverty, employment, migration and urban growth, agricultural productivity, rural development, policies and international trade. Portraits of selected developing countries.

0101	Ronald Luna MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 23) LEF 2205 EGR 2116	Discussion
0102	Ronald Luna MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 23) LEF 2205 MTH 0307	Discussion
0103	Ronald Luna MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 23) LEF 2205 SKN 1112	Discussion
0104	Ronald Luna MW 11:00am - 11:50am F 9:00am - 9:50am	Seats (Total: 23) LEF 2205 SYM 0215	Discussion

0105	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	F 10:00am - 10:50am	JMZ 1122	Discussion
0106	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	F 10:00am - 10:50am	SYM 0215	Discussion
0107	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	Th 9:30am - 10:20am	BPS 1228	Discussion
0108	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	Th 9:30am - 10:20am	SQH 1121	Discussion
0109	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	Th 11:00am - 11:50am	MTH 0106	Discussion
0110	Ronald Luna	Seats (Total: 23)	
	MW 11:00am - 11:50am	LEF 2205	
	F 11:00am - 11:50am	SYM 0215	Discussion

GEOG140

Natural Disasters: Earthquakes, Floods, and Fires

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CCEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

0101	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	Th 11:00am - 11:50am	BPS 0283	Discussion

0102	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	Th 9:30am - 10:20am	TYD 0111	Discussion
0103	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	F 10:00am - 10:50am	EDU 1121	Discussion
0104	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	F 12:00pm - 12:50pm	LEF 1220	Discussion
0105	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	F 10:00am - 10:50am	SYM 0209	Discussion
0106	Keith Yearwood	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	LEF 2205	
	Th 9:30am - 10:20am	EGR 1110	Discussion

GEOG201

Geography of Environmental Systems

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

0101	Keith Yearwood	Seats (Total: 230)
	TuTh 9:30am - 10:45am	LEF 2205

GEOG202

Introduction to Human Geography

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DVCC

Introduction to what geographers do and how they do it. Systematic stud of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?

0101	Martha Geores	Seats (Total: 25)
	MW 3:00pm - 3:50pm	TYD 0130
	F 9:00am - 9:50am	TYD 0117 Discussion

0102	Martha Geores MW 3:00pm - 3:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 JMZ 0103	Discussion
0103	Martha Geores MW 3:00pm - 3:50pm Th 9:30am - 10:20am	Seats (Total: 25) TYD 0130 JMZ 0103	Discussion
0104	Martha Geores MW 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 25) TYD 0130 EDU 1315	Discussion

GEOG211

Geography of Environmental Systems Laboratory

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

Students must pay a \$40.00 lab materials fee.

0101	Keith Yearwood M 9:00am - 11:00am	Seats (Total: 23) LEF 1136	Lab
0201	Keith Yearwood M 11:00am - 1:00pm	Seats (Total: 23) LEF 1138	Lab
0301	Keith Yearwood F 11:00am - 1:00pm	Seats (Total: 23) LEF 1138	Lab
0401	Keith Yearwood Tu 11:00am - 1:00pm	Seats (Total: 23) LEF 1136	Lab
0501	Keith Yearwood W 9:00am - 11:00am	Seats (Total: 23) LEF 1136	Lab
0601	Keith Yearwood W 9:00am - 11:00am	Seats (Total: 23) LEF 1138	Lab

0701	Keith Yearwood	Seats (Total: 23)	
	W 11:00am - 1:00pm	LEF 1136	Lab
0801	Keith Yearwood	Seats (Total: 23)	
	M 11:00am - 1:00pm	LEF 1136	Lab
0901	Keith Yearwood	Seats (Total: 23)	
	M 9:00am - 11:00am	LEF 1138	Lab
1001	Keith Yearwood	Seats (Total: 23)	
	Tu 11:00am - 1:00pm	LEF 1138	Lab

GEOG212 Introduction to Human Geography Laboratory

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in one of the following programs (Geography; GEOG-GIS & Computer Cartography).

Increase student knowledge of professional development opportunities in Geographical Sciences through classroom activities and invited speakers, and to build awareness of career development tools and strategies.

0101	Amanda Hall	Seats (Total: 25)	
	M 9:00am - 11:00am	TYD 2110	Lab

GEOG306 Introduction to Quantitative Methods for the Geographic Environmental Sciences

Credits: 3 Grading Method: Regular, General Education: FSAR
Pass-Fail, Audit

Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

0101	Naijun Zhou	Seats (Total: 25)	
	M 11:00am - 12:50pm	LEF 2166	
	M 1:00pm - 3:00pm	LEF 1138	Lab

0102	Naijun Zhou	Seats (Total: 25)	
	M 11:00am - 12:50pm	LEF 2166	
	W 11:00am - 1:00pm	LEF 1138	Lab

GEOG331 Introduction to Human Dimensions of Global Change

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ANTH220, ANTH260, GEOG202, or GEOG201; or permission of BSOS-Geography department. Credit only granted for: GEOG331 or GEOG361. Formerly: GEOG361.

Introduction to global-scale interrelationship between human beings and the environment. The development of global issues including but not limited to the environment, food, energy, technology, population, and policy.

0101	Julie Silva	Seats (Total: 100)	
	TuTh 9:30am - 10:45am	MMH 1400	

GEOG335 Population Geography

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG201; and GEOG202. Credit only granted for: GEOG435 or GEOG335. Formerly: GEOG435.

The spatial characteristics of population distribution and growth, migration, fertility and mortality from a global perspective. Basic population-environmental relationships; carrying capacity, density, and relationships to national development.

0101	Mila Zlatic	Seats (Total: 100)	
	TuTh 3:30pm - 4:45pm	LEF 2205	

GEOG372 Remote Sensing

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Principles of remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

Students must pay a \$40.00 lab materials fee.

0101	Patricia Oliva Pavon, Belen Franch	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	LEF 2166	
	Th 11:00am - 2:00pm	LEF 1136	Lab
0102	Patricia Oliva Pavon, Belen Franch	Seats (Total: 25)	
	TuTh 9:30am - 10:45am	LEF 2166	
	F 11:00am - 2:00pm	LEF 1136	Lab

GEOG373

Geographic Information Systems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

There is a \$40.00 lab fee for this course.

0101	Naijun Zhou	Seats (Total: 25)	
	W 9:00am - 11:00am	LEF 2166	
	Th 11:00am - 1:00pm	LEF 1138	Lab
0102	Naijun Zhou	Seats (Total: 25)	
	W 9:00am - 11:00am	LEF 2166	
	Th 9:00am - 11:00am	LEF 1138	Lab

GEOG376

Introduction to Computer Programming for GIS

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH220, MATH130, or MATH140. And GEOG373; or permission of BSOS-Geography department.

Introduces conceptual and practical aspects of programming for geographic applications. The main focus is on developing a solid understanding of basic programming techniques irrespective of the specific programming language including variables, looping, conditional statements, nesting, math, strings, and other concepts. In addition, students will develop a proficiency in applying these basic programming principles to manipulating spatial data sources within the Geographic Information Systems (GIS).

Students must pay a \$40.00 lab materials fee.

0101	Ruibo Han	Seats (Total: 25)
	MW 11:00am - 11:50am	LEF 1124
	F 9:00am - 11:00am	LEF 1138 Lab

0102	Ruibo Han	Seats (Total: 25)
	MW 11:00am - 11:50am	LEF 1124
	F 9:00am - 11:00am	LEF 1136 Lab

GEOG384

Internship in Geography I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390).

Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 15)
	Contact instructor or department for details.	

GEOG384H

Internship in Geography I

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390).

Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 5)
	Contact instructor or department for details.	

GEOG385

Internship in Geography II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 10)
Contact instructor or department for details.		

GEOG385H Internship in Geography II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

0101	Allen Eney	Seats (Total: 5)
Contact instructor or department for details.		

GEOG396 Honors Research

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of BSOS-Geography department; and senior standing or higher; and must be in Geography program. Formerly: GEOG397.

First course in the departmental honors sequence. Student development of a potential research topic under the guidance of a faculty advisor, culminating in a written and oral presentation of a research proposal.

0101	Rachel Berndtson	Seats (Total: 5)
Contact instructor or department for details.		

GEOG397 Honors Thesis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG396. Restriction: Must be in Geography program; and senior standing or higher. Formerly: GEOG399.

Second course in the departmental honors sequence. Student research under the auspices of a faculty advisor, culminating in a research paper to be defended orally before the geography honors committee.

0101	Rachel Berndtson	Seats (Total: 5)
	Contact instructor or department for details.	

GEOG398 Special Topics in Geography

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introductory course dealing with special topics in geography.

Contact department for information to register for this course.

GEOG398B Special Topics in Geography; Advanced Geographical Environmental Systems

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introductory course dealing with special topics in geography.

0101	Eric Kasischke	Seats (Total: 100)
	TuTh 12:30pm - 1:45pm	TYD 0117

GEOG413 Migration: Latin America and the United States

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG313; or permission of BSOS-Geography department. Recommended: HIST250; or USLT201; or LASC234. Credit only granted for: GEOG413, or GEOG498M. Formerly: GEOG498M.

Develops an understanding of the push and pull factors that have contributed to human mobility (migration) that has transformed the Americas. The class is divided in two parts: immigration and emigration from Latin American and Latin America migration to the United States. We will be interested in studying the migration shifts that have occurred in Latin America and the theories that help explain them. The themes that will be addressed are the history of migration with Latin America and to North America, the impact of this migration on both sending and receiving countries, and the various policy strategies and issues concerning migration.

Additional Note: Also offered as GEOG788M. Credit granted for GEOG413, GEOG498M, or GEOG788M.

0101	Ronald Luna	Seats (Total: 25)
	MW 9:00am - 10:15am	LEF 1124

GEOG415 Land Use, Climate Change, and Sustainability

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG123 or GEOG306; or permission of BSOS-Geography department.

Recommended: GEOG340; or GEOG342; or GEOG331. Or GEOG201; and GEOG211. Credit only granted for: GEOG415 or GEOG498D. Formerly: GEOG498D.

The issues of climate change and land use change as two interlinked global and regional environmental issues and their implications for society and resource use are explored.

0101	Kuishuang Feng	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	LEF 1124

GEOG421 Changing Geographies of China

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of BSOS-Geography department. Or GEOG202; and GEOG201; and (GEOG435, GEOG333, or GEOG332). Recommended: GEOG130; or GEOG140. Credit only granted for: GEOG328B or GEOG421. Formerly: GEOG328B.

Covers physical geography, history, and economic and political systems of the world's most populous country. The major focus will be on geographical issues in China's contemporary development: agriculture, population, urbanization, resource and energy, and environment.

0101	Mila Zlatic	Seats (Total: 25)
	TuTh 5:00pm - 6:15pm	LEF 2166

GEOG441 The Coastal Ocean

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG140; or students who have taken courses with comparable content may contact the department; or permission of BSOS-Geography department. Credit only granted for: GEOG441 or GEOG498C. Formerly: GEOG498C.

Introduction to coastal oceanography, focusing on the physical, biological, and geological aspects of ocean areas on the inner continental shelves. Wave, currents, and tidal dynamics of bays, open coast, estuaries, and deltas. Sedimentary environments of major coastal types. Ecology and biogeochemical relationships, including benthic and planktonic characteristics. Coastal evolution with sea level rise. Human impacts: eutrophication, modification of sedimentation. The coastal future: rising sea level, hypoxia, and increased storminess.

0101	Seth Miller	Seats (Total: 40)
	W 10:30am - 1:00pm	TYD 1108

GEOG473 Geographic Information Systems and Spatial Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG306 and GEOG373; or students who have taken courses with comparable content may contact the department. Credit only granted for: GEOG473 or GEOG482. Formerly: GEOG482.

Analytical uses of geographic information systems; data models for building geographic data bases; types of geographic data and spatial problems; practical experience using advanced software for thematic domains such as terrain analysis, land suitability modeling, demographic analysis, and transportation studies.

Students must pay a \$40.00 lab materials fee.

0101	Naijun Zhou	Seats (Total: 25)	
	Th 1:00pm - 3:00pm	LEF 1124	
	W 5:00pm - 7:00pm	LEF 1136	Lab
0102	Naijun Zhou	Seats (Total: 25)	
	Th 1:00pm - 3:00pm	LEF 1124	
	M 3:00pm - 5:00pm	LEF 1138	Lab

GEOG476 Object-Oriented Computer Programming for GIS

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOG373 and GEOG376; or permission of BSOS-Geography department. And must have completed or be concurrently enrolled in MATH220, MATH130, or MATH140. Restriction: Must be in Geography program; or must be in GIS minor. Credit only granted for: GEOG498G or GEOG476. Formerly: GEOG498G.

Expands on conceptual and practical aspects of programming for geographic applications. The main focus of this course is to provide students more advanced programming in object oriented programming languages (i.e. Python). In addition, students will develop a proficiency in applying these advanced programming principles to manipulating spatial data sources within the Geographic Information Systems (GIS).

Students must pay a \$40.00 lab materials fee.

0101	Cheng Fu	Seats (Total: 25)	
	W 2:00pm - 4:30pm	LEF 1124	
	Contact instructor or department for details.		
	Lab sections will occasionally meet in LEF 1136 or 1138		

GEOG498**Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

*Independent study under individual guidance.***Contact department for information to register for this course.****GEOG498E****Topical Investigations; Climate, Energy, and Policy**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent study under individual guidance.

0101	Giovanni Baiocchi	Seats (Total: 25)
	Tu 3:00pm - 5:30pm	LEF 1171

GEOG498J**Topical Investigations; Foundations for GIS: Geospatial Databases**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent study under individual guidance.

Prerequisite: GEOG373 or permission of instructor. Introduction to key aspects of database design for GIS applications; major database models that support spatial data; formal models for key spatial relationships that underlie many different GIS applications; basics of SQL for making queries on datasets; design and construction of ArcGIS geodatabases; ArcGIS tools for geoprocessing. Lab sections will occasionally meet in LEF 1136 or 1138. Students must pay a \$40.00 lab materials fee

0101	Kathleen Stewart	Seats (Total: 25)
	Tu 2:00pm - 4:30pm	LEF 1124
	Contact instructor or department for details.	

GEOG498L**Topical Investigations; Land Use and Urban Economics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent study under individual guidance.

Also offered as GEOG788L. Credit granted for GEOG498L or GEOG788L.

0101	Laixiang Sun	Seats (Total: 25)
	TuTh 9:30am - 10:45am	LEF 1124

GEOG498V Topical Investigations; Mobile GIS

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent study under individual guidance.

Also offered as GEOG788V. Credit granted for GEOG498V or GEOG788V. Lab sections will occasionally meet in LEF 1136 or LEF 1138. Students must pay a \$40.00 lab materials fee.

0101	Ruibo Han	Seats (Total: 25)
	M 1:00pm - 3:30pm	LEF 1124
	Contact instructor or department for details.	
	<i>Lab sections will occasionally meet in LEF 1136 or 1138</i>	

GEOG603 Masters Research Tutorial

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: GEOG600. Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG603 or GEOG610. Formerly: GEOG610.

Development of Masters scholarly paper topic, critical literature review, formulation of geographical approach to research methodology. Individual meetings with faculty. Comprehensive exam before the end of the semester.

Contact department for information to register for this course.

GEOG606 Quantitative Spatial Analysis

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: GEOG305; or permission of BSOS-Geography department. Credit only granted for: GEOG605 or GEOG606. Formerly: GEOG605.

Multivariate statistical method applications to spatial problems. Linea and non-linear correlation and regression, factor analysis, cluster analysis. Spatial statistics including: trend surfaces, sequences, point distributions. Applications orientation.

Students must pay a \$40.00 lab materials fee.

0101	Jonathan Resop	Seats (Total: 25)
	W 1:30pm - 4:00pm	LEF 1171

GEOG608 Comprehensive Portfolio Assessment Summary

Credits: 1-3 Grading Method: Sat-Fail

Evaluation of a PhD student's portfolio.

Contact department for information to register for this course.

GEOG630 Climate, Energy, and Policy

Credits: 3 Grading Method: Regular

Prerequisite: Permission of BSOS-Geography department; or enrolled in the Geographical Sciences Graduate Program(s). Credit only granted for: GEOG430, GEOG630, or GEOG788E. Formerly: GEOG788E. Additional information: This course will make occasional use of the popular open source statistical computer language R for practical workshops.

Students will learn about climate change and energy policy from multiple perspectives including social economic, technological, scientific, and behavioural aspects and their interdependence. The course will also consider the report of the Intergovernmental Panel on Climate Change on mitigation and applied cost/benefit analysis of Climate Change.

0101	Giovanni Baiocchi	Seats (Total: 25)
	Tu 3:00pm - 5:30pm	LEF 1171

GEOG653 Spatial Analysis

Credits: 3 Grading Method: Regular

Prerequisite: GEOG579 or GEOG506; or students who have taken courses with comparable content may contact the department. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.

Methods of spatial analysis including measuring aspects of geometric features and identifying spatial patterns of geospatial objects that are represented as point, line, network, areal data, and 3-D surfaces.

Students must pay a \$40.00 lab materials fee.

Contact department for information to register for this course.

GEOG655 Spatial Database System

Credits: 3 Grading Method: Regular

Prerequisite: GEOG653. Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course is designed to help students understand, analyze, design, and implement spatial databases. While the basic concepts and theories of database will be introduced, the focus of this course will be on providing students with hands-on experiences to practice the technical skills used in spatial database design and implementation. SQL, Oracle, and ArcSDE are the key topics.

Contact department for information to register for this course.

Contact department for information to register for this course.

0101	Louis Giglio	Seats (Total: 25)
	M 2:00pm - 4:30pm	LEF 1171

Prerequisite: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences Phd or MS degree program. Restriction: Must be in a major within the BSOS-Geography department; or permission of BSOS-Geography department. Credit only granted for: GEOG477, GEOG498V, GEOG788V or GEOG777. Formerly: GEOG788V.

Designed as an introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and more importantly, to the design and implementation of a mobile GIS application. Covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. This course will also try to leverage the capabilities of JavaScript, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS web apps.

0101	Ruibo Han	Seats (Total: 25)
	M 1:00pm - 3:30pm	LEF 1124
	Contact instructor or department for details.	

GEOG788 Selected Topics in Geography

(Perm req)

Credits: 1-3 Grading Method: Regular

Readings and discussion on selected topics in the field of geography.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG788K Selected Topics in Geography; Foundations for GIS: Geospatial Databases

Credits: 1-3 Grading Method: Regular,
Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

Lab sections will occasionally meet in LEF 1136 or LEF 1138. Students must pay a \$40.00 lab materials fee.

0101	Kathleen Stewart	Seats (Total: 25)
	Tu 2:00pm - 4:30pm	LEF 1124
	Contact instructor or department for details.	
	<i>Lab sections will occasionally meet in LEF 1136 or 1138</i>	

GEOG788L Selected Topics in Geography; Land Use and Urban Economics

Credits: 3 Grading Method: Regular,
Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

Also offered as GEOG498L. Credit granted for GEOG498L or GEOG788L.

0101	Laixiang Sun	Seats (Total: 25)
	TuTh 9:30am - 10:45am	LEF 1124

GEOG788M Selected Topics in Geography; Migration: Latin America and the United States

Credits: 3 Grading Method: Regular,
 Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

Also offered as GEOG413. Credit granted for GEOG413, GEOG498M, or GEOG788M.

0101	Ronald Luna	Seats (Total: 25)
	MW 9:00am - 10:15am	LEF 1124

GEOG788S Selected Topics in Geography; Advanced Special Topics in Data Analysis; Network Analysis

Credits: 3 Grading Method: Regular,
 Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

Also offered as ANTH689N and SOCY709P. Credit granted for ANTH689N, GEO G788S, and SOCY709P. This course is intended as a survey of the theory and methods pertaining to social networks. Class time will be devoted to learning principles, theoretical perspectives, and appropriate software packages (mainly those in R) for analyzing social network data. The readings are a combination of introductory-level material, classic, scholarly readings in the field, and empirical studies that apply social network analytic techniques to topics relevant to sociology and the social sciences as a whole. The first weeks are structured around readings, group discussion, and lab (e.g. going through example scripts in R). The last few weeks are geared towards students' individual projects, culminating in small presentations (similar to conference paper presentations) on a topic of your choosing, and a final paper/project, again shaped according to your own needs/interests. Please note: this syllabus is subject to change, based on classroom discussion and needs.

0101	Christina Prell	Seats (Total: 15)
	W 3:30pm - 6:00pm	ASY 3211

GEOG788Z Selected Topics in Geography; Topics in Data Visualization with Processing and Applications in R

Credits: 3 Grading Method: Regular,
 Audit, Sat-Fail

Readings and discussion on selected topics in the field of geography.

0101	Giovanni Baiocchi	Seats (Total: 25)
	Th 1:00pm - 3:30pm	LEF 1171

GEOG789 Independent Readings

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Repeatable to 6 credits if content differs.

Contact department for information to register for this course.

GEOG790

Internship in Geography

Credits: 3

Grading Method: Regular,
Audit

Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.

Contact department for information to register for this course.

GEOG797

Professional Project

Credits: 3

Grading Method: Regular

Prerequisite: GEOG795; and must have completed or be concurrently enrolled in ENCE662.

Restriction: Must be in M.Prof.Studies: Geospatial Information Sciences (Master's) program.

Data and materials can originate from an internship (internal or external) or from relevant work experience with current employer. Under direction of faculty advisor, students will prepare a project report containing explanation of the requirements for the work, technical account of the activities undertaken, including literature review, description of methods and approaches taken, a critical discussion of results, along with conclusions and recommendations developed from the project. Final project will consist of a full-fledged GIS application that is up and running and can be tested, providing potential employers with a portfolio demonstrating student's ability to manage and develop a GIS application in real world situations.

Contact department for information to register for this course.

GEOG798

Selected Topics in Geography: Seminar Series; Seminar Series

Credits: 1

Grading Method: Regular,
Audit

Readings and discussions on selected topics in the field of geography.

0101

Rachel Berndtson

Seats (Total: 50)

Th 3:30pm - 5:00pm

LEF 1124

GEOG799

Master's Thesis Research

(Perm req)

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

GEOG898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOG899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GEOL Geology

Spring 2016

GEOL100 Physical Geology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSNL (if
taken with GEOL110)

*Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies
Physical Science Laboratory Course only when taken concurrently with GEOL 110.*

*A general survey of the rocks and minerals composing the earth, its surface features and the agents
that form them, and the dynamic forces of plate tectonics.*

0101	Tracey Centorbi	Seats (Total: 95)
	MWF 1:00pm - 1:50pm	KEB 1110
0201	Nicholas Schmerr	Seats (Total: 95)
	TuTh 2:00pm - 3:15pm	PLS 1140

GEOL102 Historical Geology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL 120 or GEOL 100; and GEOL 110. Or permission of CMNS-Geology department.

*Earth's history as revealed through the principles of stratigraphy and the processes of physical geology.
Emphasis on formations and geologic development of the North American continent.*

0101	Thomas Holtz	Seats (Total: 24)
	MWF 9:00am - 9:50am	PLS 1113
	W 2:00pm - 5:00pm	GEO 2107 Lab

GEOL110**Physical Geology Laboratory**

Credits: 1 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.

The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.

Students must pay a \$50.00 lab materials fee.

0101	Michael Brown, Anthony Mautino M 3:00pm - 6:00pm	Seats (Total: 20) GEO 2106 Lab
0201	Michael Brown, Alex Lopatka M 12:00pm - 3:00pm	Seats (Total: 20) GEO 2106 Lab
0301	Michael Brown, Hailong Bai Tu 9:00am - 12:00pm	Seats (Total: 20) GEO 2106 Lab
0401	Ernest Bell, Michael Brown Tu 4:00pm - 7:00pm	Seats (Total: 20) GEO 2106 Lab
0501	Hailong Bai, Michael Brown Th 9:00am - 12:00pm	Seats (Total: 20) GEO 2106 Lab
0601	Michael Brown, Ernest Bell Th 4:00pm - 7:00pm	Seats (Total: 20) GEO 2106 Lab
0901	Anthony Mautino, Michael Brown W 3:00pm - 6:00pm	Seats (Total: 20) GEO 2106 Lab

GEOL120**Environmental Geology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: PS General Education: DSNS

Credit only granted for: GEOL100 or GEOL120.

A review of geologic factors underlying many environmental problems and the interactions between population and physical environment: geologic hazards, land-use planning, conservation, mineral resources, waste disposal, land reclamation, and the geologic aspects of health and disease. The course is aimed at lower division students in education and liberal arts, and should be useful to any student concerned with geologic perspectives of environmental problems.

0201	Sujay Kaushal TuTh 3:30pm - 4:45pm W 3:00pm - 3:50pm	Seats (Total: 20) CHM 1402 PLS 1158	Discussion
0202	Sujay Kaushal TuTh 3:30pm - 4:45pm W 4:00pm - 4:50pm	Seats (Total: 20) CHM 1402 PLS 1158	Discussion
0203	Sujay Kaushal TuTh 3:30pm - 4:45pm W 5:00pm - 5:50pm	Seats (Total: 20) CHM 1402 PLS 1158	Discussion
0204	Sujay Kaushal TuTh 3:30pm - 4:45pm W 3:00pm - 3:50pm	Seats (Total: 20) CHM 1402 PLS 1164	Discussion
0205	Sujay Kaushal TuTh 3:30pm - 4:45pm W 4:00pm - 4:50pm	Seats (Total: 20) CHM 1402 PLS 1164	Discussion
0206	Sujay Kaushal TuTh 3:30pm - 4:45pm W 5:00pm - 5:50pm	Seats (Total: 20) CHM 1402 PLS 1164	Discussion

GEOL123

Causes and Consequences of Global Change

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Also offered as: AOSC123. Credit only granted for: AOSC123, GEOG123, GEOL123, or METO123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

0101	William Kibikas, Rachel Pinker, Silvia Santos Da Silva MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) CSS 2324 PLS 1164	Discussion
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0102	Rachel Pinker, Silvia Santos Da Silva, William Kibikas MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) CSS 2324 PLS 1164	Discussion
0103	Rachel Pinker, Silvia Santos Da Silva, William Kibikas MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) CSS 2324 PLS 1164	Discussion
0104	Silvia Santos Da Silva, William Kibikas, Rachel Pinker MW 12:00pm - 12:50pm F 9:00am - 9:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion
0105	Silvia Santos Da Silva, William Kibikas, Rachel Pinker MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion
0106	Silvia Santos Da Silva, William Kibikas, Rachel Pinker MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 20) CSS 2324 PLS 1172	Discussion

GEOL204

Dinosaurs, Early Humans, Ancestors, and Evolution; The Fossil Record of Vanished Worlds of the Prehistoric Past

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: PS

General Education: DSNS,
SCIS

Examination of evidence used to reconstruct critical events in the history of life by looking at case studies of significant evolutionary origins, transitions, and extinctions; addressing the role of paleontology in human society, including science education, conservation, and the media.

0101	Thomas Holtz TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 20) CHE 2110 PLS 1158	Discussion
0102	Thomas Holtz TuTh 9:30am - 10:45am M 4:00pm - 4:50pm	Seats (Total: 20) CHE 2110 PLS 1158	Discussion

0103	Thomas Holtz TuTh 9:30am - 10:45am M 5:00pm - 5:50pm	Seats (Total: 20) CHE 2110 PLS 1158	Discussion
0104	Thomas Holtz TuTh 9:30am - 10:45am M 3:00pm - 3:50pm	Seats (Total: 20) CHE 2110 PLS 1168	Discussion
0105	Thomas Holtz TuTh 9:30am - 10:45am M 4:00pm - 4:50pm	Seats (Total: 20) CHE 2110 PLS 1168	Discussion
0106	Thomas Holtz TuTh 9:30am - 10:45am M 5:00pm - 5:50pm	Seats (Total: 20) CHE 2110 PLS 1168	Discussion

GEOL288A

Field Studies I; Natural History of Arizona

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail

Examination and investigation of Earth Science phenomena in the field, particularly geology. Involves fieldwork of one week or longer duration, which work normally includes both observation and data collection. Particular programs may require certain prerequisites. Permission of Instructor is required. Special fees may be necessary.

Contact department for information to register for this course.

GEOL322

Mineralogy

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL120 or GEOL100; and GEOL110. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Permission of instructor is required for non-degree seeking students.

Basic mineralogy for geology majors. The principles of morphologic crystallography, crystal chemistry, and determinative mineralogy.

0101	Tracey Centorbi TuTh 11:00am - 12:15pm M 1:00pm - 3:50pm	Seats (Total: 22) EGR 0108 GEO 2107	Lab
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GEOL340

Geomorphology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL 120 or GEOL 100. Restriction: Permission of instructor is required of non-degree seeking students.

Analysis of landforms, organized on the basis of the geologic processes that have operated during the late Cenozoic. Constructional and erosional landforms related to physical systems operating on geologic structures through time.

0101	Karen Prestegaard	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	PLS 1117	
	W 10:00am - 1:00pm	GEO 2107	Lab

GEOL341 Structural Geology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL 120 or GEOL 100; and GEOL 102; and GEOL 110. Or permission of CMNS-Geology department. Restriction: Permission of instructor is required of non-degree seeking students.

Study of the deformation of Earth's lithosphere, especially stress, rheology, strain, and the origin and significance of structural features. Development of 3-dimensional thinking through drafting and drawing of structures, construction of geologic maps and cross-sections, and stereographic and orthographic representation of structures. Improvement of scientific writing. Two weekend field trips.

0101	Robert Tucker	Seats (Total: 20)	
	MWF 9:00am - 9:50am	PLS 1158	
	M 10:00am - 1:00pm	GEO 2107	Lab

GEOL342 Sedimentation and Stratigraphy

Credits: 4 Grading Method: Regular,
Pass-Fail

Prerequisite: GEOL 120 or GEOL 100; and GEOL 110; and GEOL 322. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Permission of instructor is required of non-degree-seeking students.

Description, origin, and distribution of sediments and sedimentary rocks. Two mandatory weekend field trips.

0102	Alan Kaufman	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PLS 1113	
	Tu 12:30pm - 3:30pm	GEO 2107	Lab

GEOL393**Geology Senior Thesis I: Proposal**

Credits: 3 Grading Method: Regular

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

0101	Philip Candela	Seats (Total: 10)
	Tu 4:30pm - 6:30pm	PLS 1158
	Contact instructor or department for details.	

GEOL393H**Geology Senior Thesis I: Proposal**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS141 and MATH141. And CHEM131 and CHEM132; or (CHEM135 and CHEM136). And must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program; and non-degree-seeking students require the permission of the instructor.

The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.

0101	Philip Candela	Seats (Total: 10)
	Tu 4:30pm - 6:30pm	PLS 1158
	Contact instructor or department for details.	

GEOL394**Geology Senior Thesis II: Research**

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

Contact department for information to register for this course.

GEOL394H Geology Senior Thesis II: Research

Credits: 3 Grading Method: Regular CORE: CS General Education: DSSP

Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses.

Restriction: Must be in Geology program; and junior standing or higher; and in addition, non-degree-seeking students require the permission of the department.

The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.

For Geology department honors students only.

Contact department for information to register for this course.

GEOL443 Petrology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL322. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. And must have completed or be concurrently enrolled in GEOL423; and (GEOL100 or GEOL120); and GEOL110. Corequisite: Permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Study of igneous and metamorphic rocks: petrogenesis, distributions, chemical and mineralogical relations, macroscopic and microscopic descriptions, geologic significance.

0101	Richard Walker, Michael Brown	Seats (Total: 18)	
	TuTh 8:00am - 9:15am	PLS 1113	
	Th 1:00pm - 4:00pm	GEO 2117	Lab

GEOL457 Seismology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL120 or GEOL100; and (MATH141, GEOL110, and MATH140). Or permission of CMNS-Geology department. Recommended: PHYS171, PHYS141, or PHYS161. Restriction: Non-degree-seeking students require the permission of the instructor. Credit only granted for: GEOL457 or GEOL489A. Formerly: GEOL489A.

General overview of the basics of seismology, starting with wave propagation, seismic reflection and refraction. Applications to the determination of the seismic velocity and anisotropy structure of the Earth. Earthquake generation, postseismic deformation and creep events, relation to faulting and plate tectonics.

0101	Vedran Lekic	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	PLS 1172

GEOL471 Geochemical Methods of Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.

Principles and application of geochemical analysis as applied to a variety of geological problems. X-ray and optical spectroscopy, X-ray diffraction, atomic absorption, electron microprobe, and electron microscopy.

0101	William McDonough	Seats (Total: 10)
	M 1:30pm - 2:50pm	PLS 1162
	W 1:30pm - 2:50pm	PLS 1162

GEOL472 Tectonics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GEOL 120 or GEOL 100; and (GEOL 102, GEOL341, and GEOL 110). Or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.

Study of the development of the lithosphere on Earth and other rocky planets and moons. Emphasis on student-led discussions. Improvement of scientific writing.

0101	Robert Tucker	Seats (Total: 10)
	W 1:00pm - 3:50pm	CHM 1224

GEOL489F Special Topics; Stable Isotope Geochemistry: Fundamentals and Applications

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recent advances in geology.

0101	James Farquhar	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PLS 1168

GEOL497

Recent Advances: Geology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed at least 2 upper-level GEOL courses. Corequisite: GEOL393; and a third upper-level geology course. Restriction: Must be in Geology program; and GPA of 3.0 or better in both overall and in all courses required for the major; and senior standing; and to be taken as late as possible in the program. Credit only granted for: GEOL497 or GEOL489H. Formerly: GEOL489H.

A survey of important recent advances in geological sciences in the context of the methods and practices of scientific research.

0101	Michael Brown	Seats (Total: 10)
	W 8:00am - 8:50am	PLS 1164
	F 3:00pm - 4:00pm	Location: TBA
	M 4:00pm - 6:00pm	PLS 1164 Discussion

GEOL497H

Recent Advances: Geology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed at least 2 upper-level GEOL courses. Corequisite: GEOL393; and a third upper-level geology course. Restriction: Must be in Geology program; and GPA of 3.0 or better in both overall and in all courses required for the major; and senior standing; and to be taken as late as possible in the program. Credit only granted for: GEOL497 or GEOL489H. Formerly: GEOL489H.

A survey of important recent advances in geological sciences in the context of the methods and practices of scientific research.

0101	Michael Brown	Seats (Total: 10)
	W 8:00am - 8:50am	PLS 1164
	F 3:00pm - 4:00pm	Location: TBA
	M 4:00pm - 6:00pm	PLS 1164 Discussion

GEOL499

Special Problems in Geology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH140 and MATH141; and (PHYS141, PHYS161, or PHYS171); and permission of CMNS-Geology department. Recommended: GEOL100 or GEOL120; and (MATH241 and MATH246); and (PHYS260 or PHYS273). Restriction: Non-degree-seeking students require the permission of the instructor. Credit only granted for: GEOL657 or GEOL789A. Formerly: GEOL789A.

A description of the physics of seismic wave propagation and their applications to the determination of the structure of the Earth and the mechanics of earthquakes.

0101	Vedran Lekic	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	PLS 1172

GEOL671 Analytical Methods in Mineralogy

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: CHEM471. Restriction: Non-degree-seeking students require the permission of the instructor.

An intensive study in the operation and application of instrumentation in mineralogical problems. Emphasis on designing and testing methods of analysis for use in the student's research problems in geology.

0101	William McDonough	Seats (Total: 10)
	M 1:30pm - 2:50pm	PLS 1162
	W 1:30pm - 2:50pm	PLS 1162

GEOL672 Tectonics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: GEOL341; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor. Credit only granted for: GEOL672 or GEOL789C. Formerly: GEOL789C.

The study of the development of the lithosphere on Earth and other rocky planets and moons. Emphasis on the student led discussion and improvement of scientific writing.

0101	Robert Tucker	Seats (Total: 10)
	W 1:00pm - 3:50pm	CHM 1224

GEOL789F Recent Advances in Geology; Stable Isotope Geochemistry: Fundamentals and Applications

Credits: 2-4 Grading Method: Regular,
Audit

Recent advances in geology research.

0101	James Farquhar	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PLS 1168

GEOL798 Seminar in Geology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Discussion of special topics in current literature in all phases of geology.

Contact department for information to register for this course.

GEOL799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

GEOL898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

GEOL899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

GERM Germanic Studies

Spring 2016

GERM103 Intensive Elementary German

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM102; and must not be a fluent/native speaker of German. Credit only granted for: GERM102 or GERM103.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL01	Thomas Kluber	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 1215
	Class time/details on ELMs	ONLINE

BL02	Abigail Trozenski	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	HBK 0108
	Class time/details on ELMs	ONLINE

GERM148Y Germanic Languages - Elementary I; Yiddish I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Basic instruction in a Germanic language other than German; Yiddish and Swedish are offered regularly, Danish, Netherlandic, and Norwegian when demand is sufficient. Subtitle will reflect the language. May be repeated in a different language.

Also offered as JWST281. Credit granted for GERM148Y or JWST281. Introduction to the Yiddish language, with emphasis on speaking, reading, and writing skills. Students will also learn the history of the language, its significance to Jewish culture, its origins and basic structure.

0101	Adi Mahalel	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SQH 1111

GERM203 Intensive Intermediate German

Credits: 4 Grading Method: Regular, CORE: HO
Audit

Prerequisite: GERM103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed GERM201; and must not have completed GERM202; and must not be a fluent/native speaker of German. Credit only granted for: GERM202 or GERM203.

Covers speaking, reading, writing, listening, and culture of German-speaking world.

BL01	Eileen Sellman	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 2117
	Class time/details on ELMs	ONLINE
BL02	Eileen Sellman	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 2117
	Class time/details on ELMs	ONLINE

GERM204 German Grammar Review

Credits: 3 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

*Prerequisite: GERM203; or Must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be a fluent/native speaker of German.*

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Regina Ianozi	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 2122

GERM283 Viking Culture and Civilization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

An introduction to the lifestyle of northern Europe in the 9th to 11th centuries. Taught in English.

0101	Rose-Marie Oster	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMZ 2206

GERM301 Conversation and Composition I: The German-Speaking World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM204; or students who have taken courses with comparable content may contact the department.

Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.

0101	Anja Ketterl	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2122

GERM302 Conversation and Composition II: Current Topics in German-Speaking Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.

0101	Anja Ketterl	Seats (Total: 20)
	MWF 2:00pm - 2:50pm	JMZ 3205

GERM319G Selected Topics in Germanic Language Studies; Seminar in German Language

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

GERM320 Survey of German Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Approaches to analysis of German cultural products such as literature, film, poetry, architecture and works of art. Taught in German.

0101	Hester Baer	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 3203

GERM320H Survey of German Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM301; or students who have taken courses with comparable content may contact the department.

Approaches to analysis of German cultural products such as literature, film, poetry, architecture and works of art. Taught in German.

0101	Hester Baer	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 3203

GERM369A Special Topics in Study Abroad III; Advanced German I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369B Special Topics in Study Abroad III; Advanced German II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369C Special Topics in Study Abroad III; German Composition I

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369D Special Topics in Study Abroad III; German Composition II

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369L Special Topics in Study Abroad III; Contemporary German Literature

Credits: 1-2 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM369P Special Topics in Study Abroad III; Pop Culture: European-American Trends

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GERM386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Restriction: Junior standing or higher.

Contact department for information to register for this course.

GERM389F Topics in Germanic Culture; Berlin: History, Memory, Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the cultures of the German, Germanic, Indo-European peoples and of their culturally related non-Indo-European neighbors. Taught in English.

Contact department for information to register for this course.

GERM397H Honors Reading (Independent Study)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Supervised reading to be taken normally only by students admitted into honors program.

Contact department for information to register for this course.

GERM399F Selected Topics in Germanic Studies; The Human Condition and the Totalitarian Experience

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

GERM403 Advanced Composition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Advanced instruction in and acquisition of German writing skills.

0101	Regina Ianozi	Seats (Total: 20)
	M 2:00pm - 3:15pm	JMZ 0205
	W 2:00pm - 3:15pm	JMZ 0208

GERM403H Advanced Composition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GERM302; or students who have taken courses with comparable content may contact the department.

Advanced instruction in and acquisition of German writing skills.

0101	Regina Ianozi	Seats (Total: 20)
	M 2:00pm - 3:15pm	JMZ 0205
	W 2:00pm - 3:15pm	JMZ 0208

GERM411 German for International Business I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced skills in German for international business, including understanding and writing correspondence, reports, graphics, ads, etc., according to current German commercial style.

Contact department for information to register for this course.

GERM439K Selected Topics in German Literature; German Literature as Cultural and Global Discourse

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special study of an author, school, genre, or theme. Taught in German.

0101	Elke Frederiksen	Seats (Total: 20)
	Th 4:30pm - 7:15pm	JMZ 3205

GERM449N Selected Topics in Germanic Studies; Nazis, Terrorists, and Spies: Coming to Terms with the Past and Present in Recent German Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of a linguistic, literary or cultural topic in Yiddish, Netherlandic, or Scandinavian studies.

Taught in English.

0101	Hester Baer	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	HBK 0302H
	Tu 3:30pm - 6:00pm	HBK 0302H Lab

GERM475 Old Norse

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The language of the old Icelandic saga, the Eddas and Skaldic poetry. Reading of texts in the original; historical development of Old Norse and its role in the Germanic language family. No knowledge of German or a Scandinavian language required. Taught in English.

0101	Rose-Marie Oster	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 3205

GERM489W Selected Topics in Area Studies; Introduction to Global Digital Humanities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course examining the cultural constructions and representations of important social and political issues, investigating their connection to German values and institutions. Taught in German.

Also offered as FREN499W, HEBR498W, JAPN498W, and SLLC499W. Credit granted for FREN499W, GERM489W, HEBR498W, JAPN498W, or SLLC499W. Opens a "global" window on the field of Digital Humanities (DH) and its computational tools. We will both constructively problematize the Euro-American centrism of the dominant DH framework and work through some of the technical challenges of developing a more global DH. Students interested in theoretical debates within DH, practical applications of DH methods to various humanities disciplines (literature, history, political science, etc.), or the purely technical dimensions of DH work (coding, statistics, etc.) are all equally welcome.

0101	Matthew Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	Location: TBA

GERM498 Honors Thesis Writing

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Required for students pursuing departmental honors in Germanic language and literatures. Under the direction of a German department faculty member, students write their honors theses.

Contact department for information to register for this course.

GERM499 Directed Study

(Perm req) Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

GERM689K Special Topics - M.A. Level; German Literature as Cultural and Global Discourse

Credits: 3 Grading Method: Regular,
Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

0101	Elke Frederiksen	Seats (Total: 20)
	Th 4:30pm - 7:15pm	JMZ 3205

GERM689N Special Topics - M.A. Level; Nazis, Terrorists, and Spies: Coming to Terms with the Past and Present in Recent German Film

Credits: 3 Grading Method: Regular,
Audit

M.A.-level study of a literary, linguistic or cultural topic in German or Germanic studies.

Taught in English.

0101	Hester Baer	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm	HBK 0302H	
	Tu 3:30pm - 6:00pm	HBK 0302H	Lab

GERM798 Master's Independent Study

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

GERM799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

GERM888 Doctoral Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

GERM898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

GERM899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

GREK Greek

Spring 2016

GREK102 Elementary Ancient Greek II

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GREK101; or students who have taken courses with comparable content may contact the department.

Continuing development of basic grammar and reading skills; study and discussion of central aspects of Greek culture.

0101	Lillian Doherty	Seats (Total: 15)	
	MWF 2:00pm - 2:50pm	LEF 1222	
	M 1:00pm - 1:50pm	LEF 1222	Discussion

GREK112 Elementary Modern Greek II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GREK111; or permission of instructor. Credit only granted for: FOLA109G or GREK112. Formerly: FOLA109G.

It is designed for students who have already completed the first semester course (GREK111) and/or those whose level of proficiency in Greek is not advanced enough for the intermediate level. Like GREK111, an introduction is provided to the language and culture of modern Greece. Students acquire the basic tools of the language and learn to communicate in simple, everyday situations. This is the second of our two-semester sequence in Elementary Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 20)	
	MWF 12:00pm - 12:50pm	KEY 0119	

GREK212 Intermediate Modern Greek II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GREK211; or permission of instructor. Credit only granted for: FOLA119G or GREK212. Formerly: FOLA119G.

A continuation in the development of fluency in spoken and written communication along with the exploration of syntactic and grammatical structures. Comprehension and vocabulary enrichment are further developed through selected readings from Modern Greek prose and poetry. This is the second of our two-semester sequence in Intermediate Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.

0101	Polyvia Parara	Seats (Total: 10)	
	MWF 11:00am - 11:50am	TYD 2102	

GREK301 Scenes from Athenian Life

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Credit only granted for: GREK301 or GREK351. Formerly: GREK351.

Makes the transition from study of Greek grammar to reading. Focus on selected aspects of life in Athens: marriage, friendship, the courts, festival, theatre. Reading short works by three authors: Lysias, Plato, and a playwright (e.g., Menander). Readings are in ancient Greek.

0101	Jorge Bravo	Seats (Total: 10)
	MW 3:30pm - 4:45pm	MMH 1218

GREK488J Greek Readings; Tragedy and Comedy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The reading of one or more selected Greek authors. Reports.

0101	Francisco Barrenechea	Seats (Total: 5)
	Tu 5:00pm - 7:40pm	TWS 1321

GREK499 Independent Study in Greek Language and Literature

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

GREK688J Special Topics in Greek Literature; Tragedy and Comedy

Credits: 3 Grading Method: Regular,
Audit

0101	Francisco Barrenechea	Seats (Total: 10)
	Tu 5:00pm - 7:40pm	TWS 1321

GREK699 Independent Study in Greek Literature

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

GREK799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

GVPT100

Scope and Methods for Political Science Research

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: SB

General Education: DSSP

An introduction to empirical research in political science.

0101	Sarah Croco MW 1:00pm - 1:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2166 JMZ 0208	Discussion
0102	Sarah Croco MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2166 TYD 0102	Discussion
0103	Sarah Croco MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2166 TYD 2108	Discussion
0201	Sarah Croco MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 25) LEF 2205 JMZ 0122	Discussion
0202	Sarah Croco MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 1101	Discussion
0203	Sarah Croco MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 SQH 1121	Discussion
0204	Sarah Croco MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 25) LEF 2205 TYD 1102	Discussion
0205	Sarah Croco MW 2:00pm - 2:50pm F 1:00pm - 1:50pm	Seats (Total: 25) LEF 2205 TYD 2110	Discussion
0206	Sarah Croco MW 2:00pm - 2:50pm F 2:00pm - 2:50pm	Seats (Total: 25) LEF 2205 TYD 1102	Discussion

GVPT101 Introduction to Political Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SB General Education: DSHS

A study of the basic principles and concepts of political science.

0101	Karol Soltan	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	TYD 2106	
	F 9:00am - 9:50am	EDU 3236	Discussion
0102	Karol Soltan	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	TYD 2106	
	F 10:00am - 10:50am	TYD 2102	Discussion
0103	Karol Soltan	Seats (Total: 25)	
	TuTh 2:00pm - 2:50pm	TYD 2106	
	F 1:00pm - 1:50pm	ASY 3219	Discussion

GVPT158A Special Topics in Study Abroad I; The European Union

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT170 American Government

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SB General Education: DSHS

A comprehensive study of national government in the United States.

0101	Kristina Miler	Seats (Total: 25)	
	MW 10:00am - 10:50am	TYD 0130	
	F 9:00am - 9:50am	JMZ 3120	Discussion
0102	Kristina Miler	Seats (Total: 25)	
	MW 10:00am - 10:50am	TYD 0130	
	F 10:00am - 10:50am	TYD 2111	Discussion

0103	Kristina Miler MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 TYD 1108	Discussion
0104	Kristina Miler MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 LEF 1201	Discussion
0105	Kristina Miler MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) TYD 0130 JMZ 2117	Discussion
0106	Kristina Miler MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 BPS 1238	Discussion
0107	Kristina Miler MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 SQH 1103	Discussion
0108	Kristina Miler MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 SQH 1111	Discussion
0109	Kristina Miler MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) TYD 0130 TYD 2109	Discussion

GVPT200

International Political Relations

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DVUP

Prerequisite: GVPT100.

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

0101	Calvert Jones MW 10:00am - 10:50am F 9:00am - 9:50am	Seats (Total: 25) SHM 2102 JMZ 2120	Discussion
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0102	Calvert Jones	Seats (Total: 25)	
	MW 10:00am - 10:50am	SHM 2102	
	F 10:00am - 10:50am	TYD 1114	Discussion
0103	Calvert Jones	Seats (Total: 25)	
	MW 10:00am - 10:50am	SHM 2102	
	F 11:00am - 11:50am	SQH 1121	Discussion
0104	Calvert Jones	Seats (Total: 25)	
	MW 10:00am - 10:50am	SHM 2102	
	F 1:00pm - 1:50pm	SQH 1101	Discussion
0105	Calvert Jones	Seats (Total: 25)	
	MW 10:00am - 10:50am	SHM 2102	
	F 10:00am - 10:50am	TYD 0111	Discussion
0106	Calvert Jones	Seats (Total: 25)	
	MW 10:00am - 10:50am	SHM 2102	
	F 11:00am - 11:50am	TYD 2110	Discussion

GVPT221

Introduction to Formal Theories of Political Behavior and Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT170.

An introduction to the theories of rational choice including theories of negotiation and bargaining, elections and voting in democracies, community organizing and the contrast between the roles and performances of government and market.

0101	Piotr Swistak	Seats (Total: 30)
	Th 2:00pm - 4:45pm	TYD 2109

GVPT241

The Study of Political Philosophy: Ancient and Modern

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Restriction: Must be in Government & Politics program.

Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.

0101	James Glass MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) TYD 0130 SQH 1123	Discussion
0102	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 0130 TYD 0102	Discussion
0103	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 0130 PLS 1113	Discussion
0104	James Glass MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) TYD 0130 LEF 1221	Discussion
0105	James Glass MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 20) TYD 0130 SQH 1103	Discussion
0106	James Glass MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 20) TYD 0130 SQH 1103	Discussion
0107	James Glass MW 2:00pm - 2:50pm F 9:00am - 9:50am	Seats (Total: 20) TYD 0130 LEF 1171	Discussion
0108	James Glass MW 2:00pm - 2:50pm F 12:00pm - 12:50pm	Seats (Total: 20) TYD 0130 TYD 0102	Discussion

GVPT258B
Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.
Contact department for information to register for this course.
GVPT258C
Introduction to Political Science Topics in Study Abroad; Government and Politics in China

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258D Introduction to Political Science Topics in Study Abroad; Danish Politics and Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258J Introduction to Political Science Topics in Study Abroad; Comparative Foreign Policy-Haifa

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258N Introduction to Political Science Topics in Study Abroad; Arms Control in the Nuclear Realm

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258P Introduction to Political Science Topics in Study Abroad; Sustainable Development: Environmental, Political and Social Issues

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258Q Introduction to Political Science Topics in Study Abroad; Latin American Social Revolutions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258R Introduction to Political Science Topics in Study Abroad; Peace & Conflict Honors Seminar II: Regional Conflicts

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT258T Introduction to Political Science Topics in Study Abroad; Terrorism and Political Violence

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science taken as part of an approve study abroad program.

Contact department for information to register for this course.

GVPT273 Introduction to Environmental Politics

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

An overview of modern environmental philosophy, politics, and policy, exploring environmental politics in the US by way of comparison with other developed and developing countries.

0101	Stephen Arves	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2109	
	F 10:00am - 10:50am	TYD 2108	Discussion
0102	Stephen Arves	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2109	
	F 9:00am - 9:50am	JMZ 1224	Discussion
0103	Stephen Arves	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2109	
	F 1:00pm - 1:50pm	TYD 1101	Discussion

GVPT280 The Study of Comparative Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT100.

An introduction to the comparative study of politics and governance, including the analytical concepts for studies of politics and a survey of the major types of regimes, including democratic and authoritarian/communist regimes.

0101	Margaret Pearson	Seats (Total: 25)	
	MW 10:00am - 10:50am	TYD 1102	
	F 9:00am - 9:50am	JMZ 1215	Discussion
0102	Margaret Pearson	Seats (Total: 25)	
	MW 10:00am - 10:50am	TYD 1102	
	F 10:00am - 10:50am	SQH 1121	Discussion
0103	Margaret Pearson	Seats (Total: 25)	
	MW 10:00am - 10:50am	TYD 1102	
	F 1:00pm - 1:50pm	TYD 0102	Discussion

GVPT289B Special Topics in Government and Politics; Globalization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289E Special Topics in Government and Politics; Economy and Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289F Does Democracy Have a Future?

Credits: 3 Grading Method: Regular, CORE: SB General Education: DSHS,
Pass-Fail, Audit DVUP, SCIS

0101	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 9:00am - 9:50am	LEF 1222	Discussion
0102	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 10:00am - 10:50am	EGR 1102	Discussion
0103	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 1:00pm - 1:50pm	LEF 1222	Discussion

0104	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 9:00am - 9:50am	LEF 1221	Discussion
0105	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 11:00am - 11:50am	TYD 1132	Discussion
0106	Ian Ward	Seats (Total: 20)	
	MW 4:00pm - 4:50pm	LEF 2205	
	F 12:00pm - 12:50pm	TYD 1132	Discussion

GVPT289G Special Topics in Government and Politics; Global Perspectives on Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289L Special Topics in Government and Politics; Religions, Beliefs, and World Affairs

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DVUP, SCIS

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

0101	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 9:00am - 9:50am	TYD 2102	Discussion
0102	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 10:00am - 10:50am	JMZ 1103	Discussion
0103	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 1:00pm - 1:50pm	TYD 1102	Discussion
0104	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 2:00pm - 2:50pm	TYD 1114	Discussion

0105	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 10:00am - 10:50am	LEF 1222	Discussion
0106	John McCauley	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	JMZ 0220	
	F 1:00pm - 1:50pm	KEY 0123	Discussion

GVPT289P Special Topics in Government and Politics; Citizenship and Ethics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289T Special Topics in Government and Politics; Issues and Controversies in 21st Century

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289X Special Topics in Government and Politics; Introduction to the European Union

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT289Y Special Topics in Government and Politics; Theories of Peace and Conflict

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.

Contact department for information to register for this course.

GVPT306 Global Environmental Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

0101	Jennifer Wallace	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	TYD 2102

GVPT309H Topics in International Relations; British Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309I Topics in International Relations; Socio-Economic, Political, Religious, and Ethnic Conflicts in Israel, and the Search for Common Ground

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT317 Mock Trial II: Advanced Trial Advocacy

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT217. Credit only granted for: GVPT317 or GVPT319B. Formerly: GVPT319B.

Development of trial advocacy skills through participation in practice trials and intercollegiate mock trial competitions. Student may have an opportunity to represent the university in intercollegiate mock trial tournaments, including the National Mock Trial Championships.

0101	Mark Graber	Seats (Total: 40)
	W 6:30pm - 9:15pm	TYD 2106

GVPT331 Courts, Law and Justice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT170.

An introductory course to the study of law with emphasis on how lawyers and judges think and argue. Topics include, contract law, property, family law, torts, and criminal procedure.

0101	Michael Spivey	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 2109	
	F 9:00am - 9:50am	JMZ 1124	Discussion
0102	Michael Spivey	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 2109	
	F 10:00am - 10:50am	TYD 2110	Discussion
0103	Michael Spivey	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 2109	
	F 1:00pm - 1:50pm	TYD 0111	Discussion

GVPT349

Topics in Political Philosophy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political philosophy.

Contact department for information to register for this course.

GVPT349Z

Topics in Political Philosophy; Political Thought

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political philosophy.

Contact department for information to register for this course.

GVPT355

Capstone in International Conflict Management

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.

Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international conflict management and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.

0101	Firas Maksad, Paul Turner	Seats (Total: 75)	
	W 3:30pm - 6:15pm	TYD 0117	

GVPT356**Capstone in International Development**

(Perm req)

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.

Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international development and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE):
<http://ter.ps/iamFEARLESS> Click here for more information on the Fearless Ideas Courses.*

0101	Stacy Kosko	Seats (Total: 40)
	Tu 2:00pm - 4:45pm	TYD 0111
0201	Stacy Kosko	Seats (Total: 30)
	Tu 9:30am - 12:15pm	SYM 3320

GVPT358A**Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358F**Study Abroad Seminar in Political Science; Government and Politics in France**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358G**Study Abroad Seminar in Political Science; History and Politics of Modern Italy: The 20th Century**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358P Study Abroad Seminar in Political Science; Political Rhetoric: Blogs, Speeches, and Spin

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358R Study Abroad Seminar in Political Science; Religion and Politics in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT359 Topics in Comparative Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in comparative politics.

Contact department for information to register for this course.

GVPT359Z Topics in Comparative Politics; Parliament, Politics and Policy Making

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in comparative politics.

Contact department for information to register for this course.

GVPT360 International Negotiations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200.

A study of the complexities of international negotiation and cross-cultural decision-making. Students will apply advanced computer technology in an interactive simulation involving actual negotiations.

0101	Guy Ziv	Seats (Total: 25)	
	M 4:00pm - 5:40pm	TYD 0117	
	F 9:00am - 9:50am	JMZ 1120	Discussion

0102	Guy Ziv	Seats (Total: 25)	
	M 4:00pm - 5:40pm	TYD 0117	
	F 10:00am - 10:50am	TYD 1108	Discussion
0103	Guy Ziv	Seats (Total: 25)	
	M 4:00pm - 5:40pm	TYD 0117	
	F 11:00am - 11:50am	TYD 1108	Discussion

GVPT368C Special Topics in Government and Politics; Asian American Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in government and politics.

Also offered as AAST443 and AMST498J. Credit granted for GVPT368C or AAST443 or AMST498J.

0101	Janelle Wong	Seats (Total: 40)	
	MW 2:00pm - 3:15pm	TWS 0234	

GVPT368I Special Topics in Government and Politics; Intermediate Geographic Information system for Social Science Research

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in government and politics.

Prerequisite: GVPT429A-Geographic Information system for Social Science Research; or an introductory course in Geographical Information System.

0101	James Gimpel	Seats (Total: 20)	
	M 2:30pm - 4:00pm	PLS 1129	
	W 2:30pm - 4:00pm	PLS 1129	Lab

GVPT376 Applied Field Research in Government and Politics

(Perm req) Credits: 3-6 Grading Method: Sat-Fail

Prerequisite: GVPT170. Corequisite: GVPT377.

Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic advisor, students conduct a major research project of mutual interest to the student and his or her host agency in the field of government and politics.

GVPT majors only and departmental permission to register.

0101	Jason Stonerook	Seats (Total: 40)
	Contact instructor or department for details.	

GVPT377 Seminar For Academic Interns

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT170. Corequisite: GVPT376.

The application of major concepts of political science to the realities of the political process. Readings and discussion attempt to relate the experiences of the academic interns to appropriate literature on the subject of political decision-making.

GVPT majors only and must have departmental permission to register.

0101	Jason Stonerook	Seats (Total: 40)
	M 6:30pm - 9:15pm	TYD 0101

GVPT379C Topics in American Politics; Civil Rights

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The study of topics in American politics.

SG91	Brent Newton	Seats (Total: 20)
	W 6:30pm - 9:00pm	BLD3 3202
	<i>Registration is restricted to CCJS-Shady Grove students.</i>	

GVPT386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.

Contact department for information to register for this course.

GVPT388**Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Permission of Director of Undergraduate Studies required.

Contact department for information to register for this course.

GVPT388I**Topical Investigations; Government and Politics Public Policy Internship Program**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

GVPT majors only and must have departmental permission to register.

0101	James Glenn	Seats (Total: 40)
	M 6:30pm - 9:15pm	TYD 1132

GVPT388M**Topical Investigations; Mock Trial Independent Study**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail

Independent research and writing on selected topics in government and politics.

Prerequisite: Permission of department.

0101	Mark Graber	Seats (Total: 15)
	W 6:30pm - 9:15pm	TYD 2108

GVPT388P**Topical Investigations; Maryland Internship Program**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Must have departmental permission to register. Also offered as SOCY398P. Credit granted for GVPT388P or SOCY398P.

0101	Raymond Williams	Seats (Total: 25)
	M 6:00pm - 8:45pm	TYD 2110

GVPT389**Experiential Learning II**

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail, Audit

Experiential credit for working in government & politics related internships, research, and teaching opportunities.

Junior standing.

Contact department for information to register for this course.

GVPT390**Game Theory**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must not have completed ECON414. Credit only granted for: GVPT399A, GVPT390, CMSC474 or ECON414. Formerly: GVPT399A.

Introduction to game theory with applications to political science, economics and sociology. Topics include preference theory, expected utility theory, Nash equilibria, subgame perfection, repeated games, folk theorems, and evolutionary stability.

0101	Piotr Swistak	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	TYD 1101

GVPT396**Introduction to Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Government & Politics Honors Program; and must have permission of the Government & Politics Honors Program.

A required course for all honors students designed to emphasize library research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project.

Contact department for information to register for this course.

GVPT397**Honors Research**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: GVPT396. Restriction: Must be in Government & Politics Honors Program.

Individual reading and research. Preparation of an original paper.

Contact department for information to register for this course.

GVPT399**Seminar in Government and Politics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399C**Seminar in Government and Politics; Cultures Without State: The Case of Catalonia**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399D**Seminar in Government and Politics; Society and Politics in Contemporary Spain**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399E**Seminar in Government and Politics; The European Union: Politics and Policy**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399I**Seminar in Government and Politics; Globalization**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399J Seminar in Government and Politics; Modern British Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399K Seminar in Government and Politics; Structure and Process in International Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399L Seminar in Government and Politics; British Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399M Seminar in Government and Politics; Policy Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399N Seminar in Government and Politics; Political Movement in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399O Seminar in Government and Politics; Parliament Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399P Seminar in Government and Politics; Foreign Policy Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399Q Seminar in Government and Politics; Security and Defense Policy in the European Union

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399R Seminar in Government and Politics; Modern American Government

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399T Seminar in Government and Politics; Social Policy, Social Exclusion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399V Seminar in Government and Politics; Political Economy of China and Japan

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399W Seminar in Government and Politics; International Economic Organizations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399X Seminar in Government and Politics; Politics of the Balkan

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399Y Seminar in Government and Politics; Political Economy of Sustainable Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT399Z Seminar in Government and Politics; International Security

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.

Contact department for information to register for this course.

GVPT402 International Law

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

A study of the basic character, general principles and specific rules of international law, with emphasis on recent and contemporary trends in the field and its relation to other aspects of international affairs.

Contact department for information to register for this course.

GVPT406 International Organizations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

A basic introduction to the full range of international organizations that have come into being over the past century and one-half, including those that aspire to be universal or global, those with a geopolitical or regional focus, and those that address specific structural or functional areas of human endeavor or issue areas.

0101	Todd Allee	Seats (Total: 30)
	M 2:00pm - 4:45pm	SQH 1119

GVPT409H Seminar in International Relations and World Politics; International Relations of the Middle East

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government & Politics Honors program. This seminar will evaluate major issues of the international relations of the Middle East and the American role and responses to these issues. The seminar will focus on several post-Cold-War cases in American foreign policy, including the 1991 and 2003 Gulf wars, policy toward Iran, American mediation in the Arab-Israeli conflict, responses to the Arab Uprisings, Re-emerging competition with Russia, and broader issues such as regional reform and nuclear non-proliferation.

0101	Shibley Telhami	Seats (Total: 20)
	M 2:00pm - 4:45pm	TYD 1118

GVPT409L Seminar in International Relations and World Politics; Transnational Relations & Non-State Actors

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Restriction: For GVPT students only. Also offered as GVPT808E. Credit granted for GVPT808E or GVPT409L.

0101	Virginia Haufler	Seats (Total: 15)
	M 3:30pm - 6:15pm	TYD 1111

GVPT409M Seminar in International Relations and World Politics; Nationalism and Ethnic Conflict

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200. Restriction: Must be in the Government and Politics program.

0101	Kathleen Cunningham	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 0102

GVPT409T Seminar in International Relations and World Politics; Political Economy of the Middle East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT409V Seminar in International Relations and World Politics; Game Theory and International Security

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT409W Seminar in International Relations and World Politics; Southeast Asia in Contemporary Global Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200. Restriction: Must be in the Government and Politics program.

0101	Jennifer Wallace	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ARC 1101

GVPT409X Seminar in International Relations and World Politics; Arms Control in the Nuclear Realm

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT409Y Seminar in International Relations and World Politics; Arab-Israeli Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT409Z Seminar in International Relations and World Politics; International Relations: Theory and Institutions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.

Restricted to undergraduate GVPT majors only. All other majors placed on hold-file.

Contact department for information to register for this course.

GVPT422 Quantitative Political Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Recommended: GVPT220. Restriction: Must be in Government & Politics program. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Introduction to quantitative methods of data analysis, including selected statistical methods, block analysis, content analysis, and scale construction.

0101	Lilliana Mason	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 1132

GVPT423 Elections and Electoral Behavior

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program.

An examination of various topics relating to elections; the focus includes the legal structure under which elections are conducted, the selection and nomination process, the conduct of election campaigns, and patterns of political participation and voting choice in different types of elections.

0101	Eric Uslaner	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TYD 2109
0201	James Gimpel	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	ASY 3219

GVPT432 Civil Rights and the Constitution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT331. Restriction: Must be in Government & Politics program.

A study of civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and the rights of defendants.

0101	Michael Spivey	Seats (Total: 75)
	MW 2:00pm - 3:15pm	ASY 2203

GVPT439A Seminar in Public Law; Comparative Constitutional Law

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in public law. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Karol Soltan	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	LEF 1201

GVPT441 History of Political Theory: Ancient and Medieval

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program; and junior standing or higher.

A survey of the principal political theories set forth in the works of writers before Machiavelli.

0101	Charles Alford	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1108

GVPT442 History of Political Theory--Medieval to Recent

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.

A survey of the principal theories set forth in the works of writers from Machiavelli to Nietzsche.

Contact department for information to register for this course.

GVPT443 Contemporary Political Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.

A survey of the principal political theories and ideologies set forth in the works of writers from Karl Marx to the present.

Contact department for information to register for this course.

GVPT449K Seminar in Political Philosophy; Politics Through Popular Fiction and Short Stories

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics Honors program.

0101	Charles Alford	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	TYD 1132

GVPT449X Seminar in Political Philosophy; Ethics & Global Policy

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT449Y Seminar in Political Philosophy; Environmental Political Theory

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.

Contact department for information to register for this course.

GVPT454 Seminar in the International Relations of China

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

Explores the foreign relations behavior of the People's Republic of China, with focus on the contemporary era.

0101	Margaret Pearson	Seats (Total: 30)
	W 2:00pm - 4:30pm	TYD 2106

GVPT456 The Politics of Terrorism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program. Credit only granted for: GVPT456 or GVPT459T. Formerly: GVPT459T.

Examination of the definition, causes and organization of terrorist activity, along with key domestic and international counter- and anti-terrorism responses. Special emphasis on challenges and opportunities to the scientific study of terrorism.

0101	Kanisha Bond	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TYD 1101

GVPT457 American Foreign Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.

The principles and machinery of the conduct of American foreign relations, with emphasis on the Departments of State and Defense, and an analysis of the major foreign policies of the United States.

Contact department for information to register for this course.

GVPT458A Special Topics in Study Abroad IV; Inequality, Poverty and Globalization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458C Special Topics in Study Abroad IV; Politics, War and Economics in the Age of Globalization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458F Special Topics in Study Abroad IV; Integration, Conflict and Security in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458G Special Topics in Study Abroad IV; Czech Society Transformation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458K Special Topics in Study Abroad IV; Themes and Issues in Transatlantic Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458O Special Topics in Study Abroad IV

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458Q Special Topics in Study Abroad IV; Islam and Europe: Historical and Contemporary Dimensions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458R Special Topics in Study Abroad IV; Terrorism International Politics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458X Special Topics in Study Abroad IV; European Legal Traditions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458Y Special Topics in Study Abroad IV; Environmental Politics and Policy in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT458Z Special Topics in Study Abroad IV; Contemporary Germany in European Perspective

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

GVPT459D Seminar in Comparative Politics; Politics of the Developing World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Joel Simmons	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 1102

GVPT459E Seminar in Comparative Politics; Comparative Politics of the Middle East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Government and Politics program.

0101	Calvert Jones	Seats (Total: 30)
	MW 2:00pm - 3:15pm	TYD 1101

GVPT459L Seminar in Comparative Politics; Comparative Political Economy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Prerequisite: GVPT200 or GVPT280. Restriction: Must be in the Government and Politics program.

0101	Joel Simmons	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TYD 1114

GVPT459W Seminar in Comparative Politics; Civil Wars

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	Kanisha Bond	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TYD 1114

GVPT473 The U.S. Congress

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program; and junior standing or higher.

A detailed survey of lawmaking and the legislative process, emphasizing the U.S. Congress, and its members.

0101	Kristina Miler	Seats (Total: 30)
	W 2:00pm - 4:45pm	TYD 1102

SG91	Samantha Davis	Seats (Total: 40)
	W 3:30pm - 6:00pm	BLD3 3206
<i>Limit to CCJS students at Shady Grove.</i>		

GVPT479H Seminar in American Politics; Power, Representation and Pub Policy

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics Honors program.

0101	David Karol	Seats (Total: 20)
	TuTh 9:30am - 10:45am	TYD 0102

GVPT479K Seminar in American Politics; Presidential Elections

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program.

0101	David Karol	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	LEF 1201

GVPT479P Seminar in American Politics; Polarization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.

Restriction: Must be in the Government and Politics program. In this seminar we shall examine political polarization in the United States (and elsewhere) from both an institutional and behavioral perspective. We shall consider the rise of polarization in American institutions, notably the Congress, and ask whether this represents a growth in ideological divergence or more simple partisan conflict. We examine whether this polarization reflects institutional forces (redistricting and legislative rules) or constituency dynamics (conditional party government and the growth of economic inequality).

0101	Eric Uslaner	Seats (Total: 30)
	M 3:30pm - 6:15pm	TYD 1102

GVPT481 Government and Administration of Russia and the States of the Former Soviet Union

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the states of the former Soviet Union.

Contact department for information to register for this course.

GVPT484 Government and Politics of Africa

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT282 or GVPT280. Restriction: Must be in a major within BSOS-Government & Politics department.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

0101	John McCauley	Seats (Total: 30)
	MW 3:00pm - 4:15pm	JMZ 0103

GVPT485 Government and Politics of the Middle East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program.

A comparative study of the governmental systems and political processes of the African countries, with special emphasis on the problems of nation-building in emergent countries.

Contact department for information to register for this course.

GVPT722 Advanced Quantitative Methods For Political Science

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: GVPT622; or permission of instructor.

Introduction to multivariate analysis. Elementary matrix algebra, multiple linear and curvilinear correlation and regression, analysis of variance, canonical correlation and regression, discriminant analysis, and several types of factor analysis.

0101	Patrick Wohlfarth	Seats (Total: 10)
	W 3:30pm - 6:15pm	LEF 0214
0201	Michael Hanmer	Seats (Total: 10)
	W 3:30pm - 6:15pm	Location: TBA

GVPT729E**Special Topics in Quantitative Political Analysis; Network Analysis**

Credits: 3

Grading Method: Regular,
Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	Christina Prell	Seats (Total: 5)
	W 3:30pm - 6:00pm	ASY 3211

GVPT729M**Special Topics in Quantitative Political Analysis; Multilevel Analysis**

Credits: 3

Grading Method: Regular,
Audit

An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.

0101	Ernesto Calvo	Seats (Total: 12)
	Th 3:30pm - 6:15pm	LEF 0225

GVPT742**Modern Political Theory**

Credits: 3

Grading Method: Regular,
Audit

Recommended: GVPT741. Restriction: Permission of BSOS-Government & Politics department.

The influence of the Enlightenment on political thought, beginning with Machiavelli and ending around the time of Mill and Marx, in which the Enlightenment worked itself out in the hopes and fears of these and other authors.

0101	James Glass	Seats (Total: 12)
	W 3:30pm - 6:15pm	TYD 1111

GVPT771 Seminar in American Political Behavior

Credits: 3 Grading Method: Regular,
Audit

This is the core seminar in American political behavior. The course wil deal with prominent theoretical and empirical issues in the areas of voting, public opinion, political participation and other aspects of political behavior in the American context.

0101	Lilliana Mason	Seats (Total: 12)
	M 12:30pm - 3:15pm	TYD 1136

GVPT780 Seminar in the Comparative Study of Politics

Credits: 3 Grading Method: Regular,
Audit

An examination of the salient approaches to and conceptual frameworks for the comparative study of politics, followed by the construction of models and typologies of political systems.

0101	Mark Lichbach	Seats (Total: 12)
	Tu 12:30pm - 3:15pm	TYD 1136

GVPT799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

GVPT808B Selected Topics in Functional Problems in International Relations; Conflict and World Politics

Credits: 3 Grading Method: Regular,
Audit

An examination of the major substantive issues in contemporary international relations.

0101	Paul Huth	Seats (Total: 12)
	Tu 9:30am - 12:15pm	TYD 1136

GVPT808C Selected Topics in Functional Problems in International Relations; Prospectus Seminar in International Relations & Comparative Politics

Credits: 3 Grading Method: Regular, Audit

An examination of the major substantive issues in contemporary international relations.

0101	Patrick Wohlfarth	Seats (Total: 12)
	Tu 12:30pm - 3:15pm	TYD 1111
0201	Todd Allee	Seats (Total: 12)
	Tu 12:30pm - 3:15pm	Location: TBA

GVPT808E Selected Topics in Functional Problems in International Relations; Transnational Relations & Non-State Actors

Credits: 3 Grading Method: Regular,
Audit

An examination of the major substantive issues in contemporary international relations.

Also offered as GVPT409L. Credit granted for GVPT808E or GVPT409L.

0101	Virginia Haufler	Seats (Total: 15)
	M 3:30pm - 6:15pm	TYD 1111

GVPT831 Formal Theories of Politics I

Credits: 3 Grading Method: Regular, Audit

Survey of major formal theories of politics, with emphasis on those theories based on the assumptions of rationality. The theory of public goods, game theory, coalition theory, and the theoretical properties of voting systems.

0101	Kathleen Cunningham	Seats (Total: 12)
	Th 12:30pm - 3:15pm	TYD 1136
0201	Irwin Morris	Seats (Total: 12)
	Th 12:30pm - 3:15pm	Location: TBA

GVPT849 Readings in Government and Politics

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Guided readings and discussions on selected topics in political science

Contact department for information to register for this course.

GVPT873 Seminar in Legislatures and Legislation

Credits: 3 Grading Method: Regular,
 Audit

Reports on topics assigned for individual study and reading about the composition and organization of legislatures and about the legislative process.

0101	Frances Lee	Seats (Total: 12)
	Tu 9:30am - 12:15pm	TYD 1111

GVPT888G Selected Topics in Comparative Governmental Institutions; Gender and Politics

Credits: 3 Grading Method: Regular,
 Audit

An examination of special topics in comparative politics.

Also offered as WMST698Y. Credit granted for GVPT888G and WMST698Y. This seminar explores key issues of gender inequality in political representation and behavior. The course covers a wide range of questions on the role of gender in politics from a comparative and international perspective. Students will examine topics such as the adoption and impact of gender quotas in electoral laws, candidate selection and political recruitment, women in the state and in conflict, and gender identity and social movements. The seminar will highlight some of the more novel and interesting methodological approaches to studying the politics of gender and women, such as field and survey experiments and social network analysis. A guiding theme of the seminar is inequality, broadly understood. Consequently, students will explore also how gender interacts with the politics of race and class.

0101	Isabella Alcaniz	Seats (Total: 12)
	M 9:30am - 12:15pm	TYD 1111

GVPT889M Selected Topics in Area Problems in International Relations; The Making of American Policy in the Middle East

Credits: 3 Grading Method: Regular,
 Audit

Special topics concerning regional problems in the relations of states.

This seminar will evaluate different approaches to American policy-making toward the Middle East, including changing strategic interests, bureaucratic politics, the Congressional role, lobbies, Presidential preferences, and public opinion. Beyond a brief reviews of different approaches, the seminar will focus on several post-Cold-War cases in American foreign policy, including the 1991 and 2003 Gulf wars, policy toward Iran, American mediation in the Arab-Israeli conflict, dealing with the threat of ISIL and other militant groups, and broader issues such as regional reform and nuclear non-proliferation. The role of other potentially competitive powers such as China and Russia will also be assessed. The conversation in the seminar will tie theoretical and historical readings to current issues facing the United States in the Middle East.

0101	Shibley Telhami	Seats (Total: 12)
	M 6:15pm - 9:00pm	TYD 1136

GVPT898

Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

GVPT899

Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HACS

ACES-Cybersecurity

Spring 2016

HACS102

Foundations in Cybersecurity II

Credits: 3 Grading Method: Regular

General Education: DSSP

Prerequisite: HACS100. Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

Second interdisciplinary foundational course of the ACES program. Through lectures and project work, students will learn and practice cybersecurity. Students will work in teams to develop a honeypot project, and work on this project throughout the course. Weekly lectures will supplement project work, focusing on types of computer attacks and protections, data collection and analysis, and other foundational cybersecurity concepts.

0101	Michel Cukier, Jandelyn Plane	Seats (Total: 34)
	TuTh 2:00pm - 3:15pm	PFR 1105
0201	Michel Cukier, Jandelyn Plane	Seats (Total: 35)
	TuTh 3:30pm - 4:45pm	PFR 1105

0301	Michel Cukier, Jandelyn Plane	Seats (Total: 35)
	TuTh 5:00pm - 6:15pm	PFR 1105

HACS208E Seminar in Cybersecurity; Introduction to Reverse Engineering

Credits: 3

Grading Method: Regular

General Education: DSSP

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program. Repeatable to 6 credits if content differs.

0101	Daniel Buettner	Seats (Total: 24)
	W 4:00pm - 6:45pm	PFR 0103

HACS208I Seminar in Cybersecurity; Security Incident Handling and Management

Credits: 3

Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program. Repeatable to 6 credits if content differs.

0101	Paul Bellis	Seats (Total: 20)
	Tu 5:00pm - 7:45pm	PFR 0103

HACS208P Seminar in Cybersecurity; Beyond Technology, the Policy Implications of Cyberspace

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program. Repeatable to 6 credits if content differs.

0101	William Nolte	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	PFR 1111

HACS208Y Seminar in Cybersecurity; Cyber Psychology

Credits: 3 Grading Method: Regular

Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program. Repeatable to 6 credits if content differs.

0101	Dana LaFon	Seats (Total: 20)
	Th 9:30am - 12:15pm	PFR 1111

HACS279 Undergraduate Research in Cybersecurity

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

0101	Michel Cukier	Seats (Total: 6)
	Contact instructor or department for details.	
0201	Jandelyn Plane	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Gang Qu	Seats (Total: 2)
	Contact instructor or department for details.	
0401	Jonathan Katz	Seats (Total: 5)
	Contact instructor or department for details.	
0501	James Purtilo	Seats (Total: 5)
	Contact instructor or department for details.	

HACS287 Undergraduate Research in Cybersecurity

(Perm req)

Credits: 3 Grading Method: Regular

General Education: DSSP

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HACS297 Cybersecurity Experience Reflection

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.

Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.

0101	Rebecca Thomas M 4:00pm - 6:45pm	Seats (Total: 20) PFR 1111
0201	Rebecca Thomas Class time/details on ELMs	Seats (Total: 5) ONLINE

HACS402 Applied Security Analysis and Visualization

Credits: 3 Grading Method: Regular

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

Focuses on exploratory and statistical data analysis, data and information visualization, and the presentation and communication of analysis results. These topics will be presented and explored in the context of and with applications to cybersecurity related data.

0101	Edward Condon TuTh 5:00pm - 6:15pm	Seats (Total: 25) CSS 2416
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HACS479 Undergraduate Research in Cybersecurity

(Perm req)

Credits: 1-3 Grading Method: Regular

The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.

Contact department for information to register for this course.

HDCC Design Cultures and Creativity Spring 2016

HDCC106 Introduction to Digital and Creativity II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSHU

Restriction: Must be in the Digital Cultures and Creativity Honors College Living/Learning program.

Introduction to the methods and theory of digital cultural production, with emphasis on creative and expressive platforms.

0101	Sahar Khamis Th 3:30pm - 6:00pm	Seats (Total: 12) KEY 0124
0201	Krista Caballero Tu 4:00pm - 6:30pm	Seats (Total: 12) PFR 1111
0301	Alexis Lothian W 4:00pm - 6:30pm	Seats (Total: 12) PFR 1111
0401	Evan Golub TuTh 2:00pm - 3:15pm	Seats (Total: 12) PLS 1172
0501	Michelle Butler TuTh 11:00am - 12:15pm	Seats (Total: 12) EGR 1102

HDCC209A Practicum in Digital Cultures and Creativity

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Practicum in Digital Cultures and Creativity in which students will develop their program capstone projects under the supervision of a faculty mentor, with regular checkpoints and presentations to track progress.

0101	Porter Olsen Tu 3:30pm - 5:15pm	Seats (Total: 17) PFR 0111
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HDCC209B Practicum in Digital Cultures and Creativity

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Practicum in Digital Cultures and Creativity in which students will develop their program capstone projects under the supervision of a faculty mentor, with regular checkpoints and presentations to track progress.

0101	Krista Caballero	Seats (Total: 15)
	W 3:30pm - 5:15pm	PFR 0111

HDCC209C Practicum in Digital Cultures and Creativity

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Practicum in Digital Cultures and Creativity in which students will develop their program capstone projects under the supervision of a faculty mentor, with regular checkpoints and presentations to track progress.

0101	Joseph Meyer	Seats (Total: 15)
	M 4:30pm - 6:15pm	PFR 0111

HDCC209D Practicum in Digital Cultures and Creativity

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Practicum in Digital Cultures and Creativity in which students will develop their program capstone projects under the supervision of a faculty mentor, with regular checkpoints and presentations to track progress.

0101	Shiva Kondavadi	Seats (Total: 15)
	Th 2:30pm - 4:15pm	PFR 0111

HDCC379 Digital Cultures and Creativity Independent Study

Credits: 1-3 Grading Method: Regular

Involves research and/or creative scholarship directed by individual DCC faculty outside of the formal classroom structure.

0101	Krista Caballero	Seats (Total: 5)
	Contact instructor or department for details.	

For other courses, see JWST - Jewish Studies.

HEBR112 Elementary Hebrew II

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HEBR111; or must have appropriate Foreign Language Placement Test (FLPT) score.

Restriction: Must not have completed HEBR103; and must not have completed HEBR104. Credit only granted for: (HEBR103 and HEBR104) or HEBR112.

Continuation of HEBR 111.

0101	Avital Feuer, Aharon Gazit-Rosenthal	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 0120
	TuTh 9:30am - 10:45am	JMZ 0205

HEBR212 Intermediate Hebrew II

Credits: 6 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: HEBR211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed HEBR203; and must not have completed HEBR204. Credit only granted for: (HEBR203 and HEBR204) or HEBR212.

Continuation of HEBR211.

0101	Aharon Gazit-Rosenthal	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 1226
	TuTh 12:30pm - 1:45pm	JMZ 2125

HEBR2980 Special Topics in Jewish Studies; Jewish Languages in America

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as JWST219O. Credit granted for JWST219O or HEBR298O. Students will explore the history and current use of a variety of languages and dialects in the American Jewish community. They will analyze how language affects identity and the relationships to the majority group, as well as within the cultural group.

0101	Avital Feuer	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HEBR314**Conversation and Composition II**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

General Education: DSHU

Prerequisite: HEBR313; or students who have taken courses with comparable content may contact the department.

A practical language course recommended for all students continuing with Hebrew. Review of grammar and composition. Selected readings. Oral and written exercises.

0201	Aharona Gazit-Rosenthal	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HEBR369A**Special Topics in Study Abroad III; Hebrew Lower Advanced**

Credits: 6 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369B**Special Topics in Study Abroad III; Hebrew Lower Advanced**

Credits: 6 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369C**Special Topics in Study Abroad III; Hebrew Upper Advanced**

Credits: 6 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR369D**Special Topics in Study Abroad III; Hebrew Upper Intermediate**

Credits: 6 Grading Method: Regular,
 Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HEBR381**Introduction to Hebrew Cultural Studies**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HEBR314; or permission of instructor. Also offered as: JWST381. Credit only granted for: HEBR381 or JWST381.

Critical study of Israeli culture with emphasis on literature, film, and art as sites of struggle over political and social meaning during times of cultural transformation. Focus on the historical development of Israeli identity and gender, in particular within the military and Zionist youth movements. Taught in Hebrew.

Contact department for information to register for this course.

HEBR386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor; and junior standing or higher.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEBR498Q Special Topics in Hebrew; Self and Other in Israeli Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as CMLT398B, ISRL349Q and JWST319Q. Credit granted for ISRL349Q, CMLT398B, HEBR498Q, or JWST319Q. People representing many different faiths, ethnicities, languages, and cultures populate Modern Israel. Nevertheless, Jews of European origins have dominated the state's political and cultural climate. Through an exploration of literature and film, we will explore the ways in which the sense of the "self" is constructed and the ways in which the "other" is imagined in Israeli culture. "Others" include Palestinians, Sepharadim, Mizrahim, non-Zionists, Women, Eastern Europeans who do not relinquish their ties to the past, as well as individuals who resist the collective ideologies of a modern nation in the making.

0101	Chen Edrei	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0125

HEBR498W Special Topics in Hebrew; Introduction to Global Digital Humanities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as GERM489W, FREN499W, JAPN498W, and SLLC499W. Credit granted for FREN499W, GERM489W, HEBR498W, JAPN498W, or SLLC499W. Opens a "global" window on the field of Digital Humanities (DH) and its computational tools. We will both constructively problematize the Euro-Americancentrism of the dominant DH framework and work through some of the technical challenges of developing a more global DH. Students interested in theoretical debates within DH, practical applications of DH methods to various humanities disciplines (literature, history, political science, etc.), or the purely technical dimensions of DH work (coding, statistics, etc.) are all equally welcome.

0101	Matthew Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	Location: TBA

HEBR499 Independent Study in Hebrew

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

HEIP Entrepreneurship and Innovation Spring 2016

HEIP144 Contemporary Issues in Entrepreneurship and Innovation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HEIP143. Restriction: Must be in the Entrepreneurship and Innovation Program (EIP).

Inspires entrepreneurial innovation and creativity through interactive lectures, workshops, and case studies on contemporary issues to include energy, life sciences, healthcare, and technology. Explores entrepreneurial innovation sources, structures and dynamics. Helps students develop skills for generating ideas and addressing current issues and problems.

Class meets in the LaPlata Hall - multi-purpose room.

0101	Jay Smith	Seats (Total: 38)
	TuTh 11:00am - 12:15pm	LPA 0100
0201	Jay Smith	Seats (Total: 32)
	TuTh 2:00pm - 3:15pm	LPA 0100
0301	Jay Smith	Seats (Total: 36)
	TuTh 3:30pm - 4:45pm	LPA 0100

HEIP241**EIP Capstone: Creating Enterprise with Social Impact**

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit*Restriction: Must be in the Entrepreneurship and Innovation Program (EIP).**Addresses the global necessity to develop and implement solutions to critical social and environmental concerns in ways that are both technologically viable and economically sustainable. Through group exercises, guest speakers, discussions, and experiential learning activities, students will develop the skills to create businesses that achieve the double bottom line of both profitability and social benefit.*

0101	Jay Smith, John Jabara MW 5:00pm - 5:50pm	Seats (Total: 32) LPA 1125
0201	Andrew Bewick, Jay Smith TuTh 5:00pm - 5:50pm	Seats (Total: 32) LPA 0100
0301	Le-Marie Thompson, Jay Smith MW 3:00pm - 3:50pm	Seats (Total: 36) LPA 0100

HESI**Higher Ed, Student Affairs, and
International Ed Policy****Spring 2016****HESI217****Introduction to Student Leadership**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

*Restriction: Freshman standing; or sophomore standing. Credit only granted for: HESI217 or EDCP217. Formerly: EDCP217.**Introduction to leadership theories, concepts, and skills. Completion of personal and leadership self-assessments, values exploration, and small group application.*

Students must pay a \$32.00 materials fee.

0101	Michael Fleg TuTh 12:30pm - 1:45pm	Seats (Total: 25) ARC 1103
0201	Anne Spear TuTh 2:00pm - 3:15pm	Seats (Total: 25) MTH 1313
0301	Melissa Rocco MW 11:00am - 12:15pm	Seats (Total: 25) EDU 3315

0501	Ashley Venneman, Noah Henry-Darwish	Seats (Total: 20)
	MW 9:00am - 10:15am	SQH 1121

HESI315 Student Leadership in Groups and Organizations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: HESI217. Credit only granted for: HESI315 or EDCP315. Formerly: EDCP315.

Acquiring and integrating leadership knowledge within group and organizational contexts so that students can navigate organizational environments and apply leadership in diverse communities of practice and career contexts.

Students must pay a \$15.00 materials fee.

0101	Kristen Rupert	Seats (Total: 25)
	MW 12:30pm - 1:45pm	EDU 1107
0301	Courtney Holder	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	LEF 1201
	<i>Restricted to students who have completed HESI 217 or who have been admitted to the Leadership Studies Program. Email leadershipstudies@umd.edu for permission to enroll.</i>	
0401	Kristen Rupert	Seats (Total: 25)
	Tu 1:00pm - 3:30pm	LEF 1220
0501	Linh Tran, Maya Graham	Seats (Total: 25)
	MW 11:00am - 12:15pm	TYD 0111

HESI318E Applied Contextual Leadership; Leadership for Peer Assisted Learning

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Restricted to students selected to participate as Peer Mentors with the Learning Assistance Service of the Counseling Center.

0101	Katie Koo	Seats (Total: 20)
	Tu 5:00pm - 7:45pm	ASY 3203

HESI318G Applied Contextual Leadership; Greek Presidents Class

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Course restricted to Fraternity and Sorority Presidents. For permission, please contact Corin Gioia Edwards at cgioia@umd.edu

0101	Corin Edwards	Seats (Total: 55)
	W 3:30pm - 6:30pm	TWS 1310

HESI318M Applied Contextual Leadership; Leadership and Education

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

All students enrolled in the course must work with one of the three America Reads*America Counts programs and must receive permission to enroll by contacting Alison Barlow at abarlow@umd.edu. This course will explore public education policy in the United States, including historical context, No Child Left Behind legislation, the achievement gap, school funding, standardized testing, and alternatives to the current public education system. It will also explore the meaning of leadership in an educational context and advocacy for change within this context.

0101	Alison Barlow	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HESI318N Applied Contextual Leadership; Leadership in Collaborative Learning Groups

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Restricted to students selected to participate in the Guided Study Session program through the Learning Assistance Serve of the Counseling Center.

0101	Yanira Ortiz	Seats (Total: 20)
	W 5:00pm - 6:15pm	KEY 0119
	Contact instructor or department for details.	

0201	Yanira Ortiz	Seats (Total: 20)
	Th 3:30pm - 4:45pm	KEY 0119
	Contact instructor or department for details.	

HESI318O Applied Contextual Leadership; Orientation Leader

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Prerequisite: permission of department.

0101	Lauren Norris, Gerry Strumpf, Chelsea Truesdell	Seats (Total: 25)
	Tu 6:00pm - 8:30pm	TWS 1313

HESI318P Applied Contextual Leadership; Leadership through Coaching

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

0101	Terry Zacker	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	TYD 2102

HESI318R Applied Contextual Leadership; Foundations and Applications of Challenge Course Theory

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Permission of Instructor needed. Required course to become a Challenge Course Facilitator for the Outdoor Recreation Center. Contact Mike Phaneuf (mphaneuf@umd.edu) to arrange an interview. This is a leadership course focusing on Challenge Course technical skills, experiential theory, and group dynamics. Student selection is based on previous leadership experience and leadership potential.

0101	Michael Phaneuf	Seats (Total: 12)
	W 6:00pm - 9:00pm	CRC B0170E

HESI318T**Applied Contextual Leadership; Foundations and Applications of Adventure Leadership Instruction**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Required course to become an Adventure Trip Leader for the Maryland Adventure Program. Contact Amanda Even to arrange an interview: ameven@umd.edu. This is a leadership training course for individuals who are interested in leading groups in an outdoor adventure setting. Student selection is based on previous leadership experience, leadership potential, and technical outdoor experience.

0101	Amanda Even	Seats (Total: 8)
	W 6:00pm - 9:00pm	ERC 0140

HESI321**Advanced Social Action Seminar**

Credits: 1

Grading Method: Regular,
Audit

Prerequisite: HESI217 and EDCP320. Restriction: Limited to Minor in Leadership Studies students only.

The use of leadership theories to inform the practice of addressing social issues in society, on campus, or within the surrounding community. Students will: identify a current and compelling social issue; explore the historical, social, and political aspects of social issues; identify and select applicable leadership theories to confront the social issue; create and develop a plan that integrates leadership theories and the social issue; and implement and evaluate the overall social action project. Focuses on executing, implementing, and assessing a social action project in small groups and teams.

Designed for students who plan to complete the Leadership Studies Minor Certificate and is a hybrid course which is primarily online with periodical face to face interactions. (TBD once students are enrolled). Please contact instructor for permission to register, mlrocco@umd.edu

0101	Melissa Rocco	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

HESI417**Advanced Leadership Seminar**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HESI217; or students who have taken courses with comparable content may contact the department. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP417 or HESI417.

Students will analyze and synthesize the concept of leadership using cultural, ethical, sociological, historical perspectives. Exploration and reflection of personal values, decision making, in-depth analysis on various leadership activities. Theories will be emphasized.

Prerequisite: EDCI217 or EDCP315. Permission of instructor.

0101	Craig Slack, Natasha Chapman	Seats (Total: 20)
	F 9:00am - 11:45am	EDU 2119

HESI418B Special Topics in Leadership; Black Student Leadership

Credits: 3 Grading Method: Regular, General Education: DVCC
 Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Brandon Dula	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	EDU 2101

HESI418F Special Topics in Leadership; Jewish Leadership

Credits: 3 Grading Method: Regular, General Education: DVCC
 Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Ari Israel	Seats (Total: 35)
	Th 2:00pm - 4:45pm	TYD 1101

HESI418G Special Topics in Leadership; Women's Leadership

Credits: 3 Grading Method: Regular, General Education: DVCC
 Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

0101	Marsha Guenzler-Stevens	Seats (Total: 20)
	Tu 2:00pm - 5:00pm	JMZ 1224

HESI418J Special Topics in Leadership; Now What? Composing a Life of Meaning and Purpose

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Meets Tuesdays, 2:00-4:45pm in the Margaret Brent Room in Stamp. Designed for juniors and seniors who have actively participated in community service-learning, leadership, and civic engagement. Class members will have the opportunity to reflect deeply on their experiences, to study and practice modes of civic action, and to develop their future plans as civically engaged citizens, scholars, and leaders. To join this active learning community, send a paragraph explaining why you wish to take this course and a one-page statement or resume that indicates your experience and coursework in leadership; service-learning, and civic engagement to the instructor, Dr. Barbara Jacoby, bjacoby@umd.edu.

0101	Barbara Jacoby	Seats (Total: 15)
	Tu 2:00pm - 4:45pm	Location: TBA

HESI418M Special Topics in Leadership; Applications of Identity on Leadership for Social Change

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

Students will examine how aspects of identity impact leadership for social change. The class explores strategies for creating positive change while considering the complex dynamics of addressing systems of power, privilege, and oppression. A learning lab component is included in which students will participate in various projects and experiences including attending the Mosaic Diversity and Leadership Retreat or comparable experience.

0101	Yvette Lerma	Seats (Total: 20)
	Meets February 24, 2016 - May 10, 2016	
	TuTh 3:00pm - 4:50pm	TWS 1321
	Contact instructor or department for details.	

HESI418T**Special Topics in Leadership; Technology Beyond Borders: Service Learning and Leadership Across Cultural, Ethnic and Community**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The special topics and leadership course will address a single topic related to leadership through the semester. In-depth study and analysis on the topic will be the basis for the course. Topics include gender and leadership, ethics and leadership, and culture and leadership. Leadership will serve as the foundation in the course.

All students interested in this course must complete an application and receive permission to enroll. Contact Anne Spear at aspear@umd.edu for details. The purpose of this course is to introduce the concept and practice of leadership through service-learning in a complex, global context. UMD students will work on virtual teams with students at Hong Kong Polytechnic University (PolyU) and develop a collaborative service-learning project for a community in Kigali, Rwanda. The service-learning component of this course will expose students to the needs of appropriate, sustainable technology in under-resourced communities and the role of addressing social issues through global partnerships. UMD and Polytechnic students will travel abroad to complete the service-learning experience in Rwanda from May 19 - June 2.

BL01	Natasha Chapman, Anne Spear	Seats (Total: 10)
	Contact instructor or department for details.	ONLINE
	Class time/details on ELMs	

HESI470**Introduction to Student Personnel**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDCP470 or HESI470. Formerly: EDCP470.

A systematic analysis of research and theoretical literature on a variety of major problems in the organization and administration of student personnel services in higher education. Included will be discussion of such topics as the student personnel philosophy in education, counseling services, discipline, housing, student activities, financial aid, health, remedial services, etc.

Please contact Angela Jackson to get permission; ajackso6@umd.edu.

0101	Candace Daniels	Seats (Total: 9)
	M 4:00pm - 5:15pm	SQH 1120
	Tu 3:30pm - 5:00pm	OAK 0311 Discussion
0102	Candace Daniels	Seats (Total: 9)
	M 4:00pm - 5:15pm	SQH 1120
	Tu 4:00pm - 5:30pm	OAK 0315 Discussion

0103	Candace Daniels M 4:00pm - 5:15pm Tu 4:00pm - 5:30pm	Seats (Total: 9) SQH 1120 ANN 1108A	Discussion
0104	Candace Daniels M 4:00pm - 5:15pm Tu 4:30pm - 6:00pm	Seats (Total: 9) SQH 1120 SCC7 7106	Discussion
0105	Candace Daniels M 4:00pm - 5:15pm W 3:30pm - 5:00pm	Seats (Total: 9) SQH 1120 OAK 0311	Discussion
0106	Candace Daniels M 4:00pm - 5:15pm W 4:00pm - 5:30pm	Seats (Total: 9) SQH 1120 CCC 1200	Discussion
0107	Candace Daniels M 4:00pm - 5:15pm W 4:30pm - 6:00pm	Seats (Total: 9) SQH 1120 ANN 1108A	Discussion
0108	Candace Daniels M 4:00pm - 5:15pm Th 3:30pm - 5:00pm	Seats (Total: 9) SQH 1120 OAK 0311	Discussion
0109	Candace Daniels M 4:00pm - 5:15pm Th 4:00pm - 5:30pm	Seats (Total: 9) SQH 1120 CCC 1115	Discussion
0201	Candace Daniels M 5:30pm - 6:45pm Tu 3:30pm - 5:00pm	Seats (Total: 10) SQH 1120 OAK 0311	Discussion
0202	Candace Daniels M 5:30pm - 6:45pm Tu 4:00pm - 5:30pm	Seats (Total: 10) SQH 1120 OAK 0315	Discussion
0203	Candace Daniels M 5:30pm - 6:45pm Tu 4:00pm - 5:30pm	Seats (Total: 10) SQH 1120 ANN 1108A	Discussion

0204	Candace Daniels M 5:30pm - 6:45pm Tu 4:30pm - 6:00pm	Seats (Total: 10) SQH 1120 SCC7 7106	Discussion
0205	Candace Daniels M 5:30pm - 6:45pm W 3:30pm - 5:00pm	Seats (Total: 10) SQH 1120 OAK 0311	Discussion
0206	Candace Daniels M 5:30pm - 6:45pm W 4:00pm - 5:30pm	Seats (Total: 10) SQH 1120 CCC 1200	Discussion
0207	Candace Daniels M 5:30pm - 6:45pm W 4:30pm - 6:00pm	Seats (Total: 10) SQH 1120 ANN 1108A	Discussion
0208	Candace Daniels M 5:30pm - 6:45pm Th 3:30pm - 5:00pm	Seats (Total: 10) SQH 1120 OAK 0311	Discussion
0209	Candace Daniels M 5:30pm - 6:45pm Th 4:00pm - 5:30pm	Seats (Total: 10) SQH 1120 CCC 1115	Discussion
0301	Candace Daniels Contact instructor or department for details.	Seats (Total: 7)	

HESI489

Field Experiences in Higher Education, Student Affairs, and International Education Poli

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Planned field experience in education and community related activities. Credit not to be granted for experiences accrued prior to registration.

1501	Marsha Guenzler-Stevens Contact instructor or department for details.	Seats (Total: 10)
7301	Kimberly Griffin Contact instructor or department for details.	Seats (Total: 10)

HESP120**Introduction to Linguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP

Additional information: HESP120 is required for HESP majors. HESP majors may not substitute LING200.

An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.

0101	Michelle Morrison TuTh 12:30pm - 1:45pm	Seats (Total: 45) TYD 1132
0201	Ilina Stojanovska TuTh 11:00am - 12:15pm	Seats (Total: 45) TYD 2108

HESP202**Introduction to Hearing and Speech Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

An introduction to communication sciences and disorders; a survey of the bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.

0101	Kathleen Skinker TuTh 9:30am - 10:45am	Seats (Total: 99) TYD 0117
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HESP300**Introduction to Psycholinguistics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department. Recommended: HESP120.

An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.

0101	Yi Ting Huang TuTh 2:00pm - 3:15pm	Seats (Total: 52) LEF 2208
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HESP305**Anatomy and Physiology of the Speech Mechanism**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Anatomy, physiology, and neurology of speech mechanism.

0101	Tammatha O'Brien	Seats (Total: 52)
	TuTh 9:30am - 10:45am	CSS 2324

HESP311 Anatomy, Pathology and Physiology of the Auditory System

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.

Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.

0101	Julie Cohen	Seats (Total: 52)
	MWF 10:00am - 10:50am	TWS 1310

HESP386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Contact department for information to register for this course.

HESP388 Undergraduate Research Externship

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and regional universities. Contact department chairman for openings and descriptions of eligible placements.

Contact department for information to register for this course.

HESP389 LEAP Classroom Internship

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Participation in a language-based, literacy-rich preschool classroom for children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching strategies.

Contact department for information to register for this course.

HESP400 Speech and Language Development in Children

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP300; or permission of BSOS-Hearing & Speech Sciences department. Recommended: LING200 or HESP120. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Analysis of the normal processes of speech and language development in children.

0101	Yi Ting Huang	Seats (Total: 50)
	TuTh 9:30am - 10:45am	LEF 2208

HESP402 Language and Phonological Disorders in Children

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP400; or permission of BSOS-Hearing & Speech Sciences department.

Etiology, assessment and treatment of language and phonological disorders in children.

0101	Tonya Williams Walker	Seats (Total: 50)
	TuTh 5:00pm - 6:15pm	SQH 1119

HESP403 Introduction to Phonetic Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to physiological, acoustic and perceptual phonetics; broad and narrow phonetic transcription; current models of speech production and perception.

0101	Rachael Caruso	Seats (Total: 46)
	MW 5:15pm - 6:30pm	KEY 1117

HESP407**Bases of Hearing Science**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

Fundamentals of hearing, including the physics of sound, anatomy and physiology of peripheral and central auditory nervous system, psychophysical procedures used in measurement of auditory sensation and perception, and topics in psychological acoustics.

0101	Matthew Goupell	Seats (Total: 50)
	MW 3:45pm - 5:00pm	LEF 2166

HESP411**Introduction to Audiology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.

An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.

0101	Samira Anderson, Arielle Abrams	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	LEF 2166

HESP418A**Clinical Practice in Speech-Language Pathology and Audiology; Audiology Option**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Supervised observation with some direct participation in clinical methods for the treatment of disorders of articulation, fluency, child and adult language; evaluation and habilitation/rehabilitation of hearing impaired children and adults.

For majors only.

0101	Sharon Palmer	Seats (Total: 10)
	W 12:00pm - 12:50pm	LEF 0111D
	Contact instructor or department for details.	

HESP418B**Clinical Practice in Speech-Language Pathology and Audiology; Speech Pathology Option**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Supervised observation with some direct participation in clinical methods for the treatment of disorders of articulation, fluency, child and adult language; evaluation and habilitation/rehabilitation of hearing impaired children and adults.

For majors only.

0101	Vivian Sisskin	Seats (Total: 10)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

HESP422 Neurological Bases of Human Communication

Credits: 3

Grading Method: Regular

Prerequisite: HESP305; or permission of instructor. Credit only granted for: HESP498 or HESP422.

Basic neurology as it pertains to anatomy and physiology substrates of speech and language.

0101	Yasmeen Shah	Seats (Total: 10)
	Tu 1:00pm - 3:30pm	LEF 2166

HESP469 Honor Thesis Research

Credits: 1-3

Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469A Honor Thesis Research

Credits: 1-3

Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP469B Honor Thesis Research

Credits: 1-3

Grading Method: Regular

Student will develop thesis proposal, conduct research, analyze results develop and defend final written document.

Contact department for information to register for this course.

HESP498**Seminar**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Selected topics in human communication and its disorders.***Contact department for information to register for this course.**

HESP499**Independent Study; Topics in the Hearing and Speech Sciences**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail*A directed study of selected topics pertaining to human communication and its disorders.***Contact department for information to register for this course.**

HESP499H**Independent Study**

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit*A directed study of selected topics pertaining to human communication and its disorders.***Contact department for information to register for this course.**

HESP602**Neurological Bases of Human Communication**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit*Restriction: Permission of BSOS-Hearing & Speech Sciences department.**Basic neurology as it pertains to anatomical and physiological substrates of speech and language.*

0101

Yasmeen Shah

Seats (Total: 30)

Tu 1:00pm - 3:30pm

LEF 2166

HESP610**Aphasia**

Credits: 3

Grading Method: Regular,
Audit*Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor.**Etiology, diagnosis and management of language problems of adults associated with aging, brain injury and degenerative conditions.*

0101	Yasmeen Shah	Seats (Total: 30)
	Tu 9:30am - 12:00pm	LEF 0135

HESP620 Phonological and Articulatory Disorders

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor.

Assessment and treatment of phonological, articulatory and resonance disorders arising from various etiologies including developmental conditions, structural abnormalities, and nervous system damage.

0101	Colleen Worthington	Seats (Total: 34)
	Th 9:30am - 12:00pm	LEF 0135

HESP632 Medical Audiology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: HESP311. Corequisite: HESP606.

Overview of auditory pathologies, and their assessment and management in the medical setting.

0101	Kelly King, Carmen Brewer	Seats (Total: 15)
	M 5:30pm - 8:00pm	LEF 0135

HESP636 Geriatric Audiology

Credits: 3 Grading Method: Regular

Prerequisite: HESP606 and HESP700. Restriction: Must be in one of the following programs (Hearing and Speech Sciences: Ph.D. (Doctoral); Clinical Audiology: Au.D. or Ph.D. (Doctoral); Hearing and Speech Sciences: M.A. (Master's)).

Research findings are presented on the physical effects of aging on the auditory periphery and central nervous system, as well as the consequences of aging on behavioral and electrophysiologic measures of auditory function. Clinical implications in the effects of physiologic and cognitive aging on auditory performance will be discussed.

0101	Sandra Gordon-Salant, Peter Fitzgibbons	Seats (Total: 20)
	Tu 4:00pm - 6:30pm	LEF 1220

HESP638**Research Practicum**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP648A**Clinical Practice in Speech**

Credits: 1-3 Grading Method: Regular,
Audit

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

Contact department for information to register for this course.

HESP648B**Clinical Practice in Speech; Therapeutic Procedures**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

2101	Vivian Sisskin	Seats (Total: 6)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
2701	Rebecca Lower	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
2801	Eusabia Mont	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3601	Kristin Slawson	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab
3701	Rebecca Lower	Seats (Total: 7)	
	Th 12:00pm - 1:00pm	LEF 0135	Lab

HESP649A**Clinical Practice in Audiology; Diagnostic Audiology**

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP649B Clinical Practice in Audiology; Aural Rehabilitation

(Perm req)

Credits: 1-2 Grading Method: Regular

Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

Contact department for information to register for this course.

HESP701 Hearing Aids II

Credits: 3 Grading Method: Regular

Prerequisite: HESP700. Restriction: Must be in one of the following programs (Hearing and Speech Sciences: Ph.D. (Doctoral); Clinical Audiology: Au.D. or Ph.D. (Doctoral); Hearing and Speech Sciences: M.A. (Master's)) ; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.

Advanced issues in amplification technology, prescriptive hearing aid selection, and management of amplification systems for special populations.

0101	LaGuinn Sherlock, Margaret McCabe	Seats (Total: 10)
	M 3:30pm - 7:30pm	LEF 1221

HESP706 Advanced Clinical Audiology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: HESP606; or students who have taken courses with comparable content may contact the department.

Advanced clinical and experimental methods of evaluating the peripheral and central auditory system using acoustic stimuli. Procedural considerations and interpretation of test results.

0101	Samira Anderson	Seats (Total: 20)
	W 3:30pm - 6:00pm	LEF 0135

HESP708 Independent Study

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

Research Design

Prerequisite: Must have completed a course in basic statistics.

Evaluations of research designs, critique of published articles and student involvement in designing experiments on assigned topics.

0101	Matthew Goupell	Seats (Total: 10)
	M 1:00pm - 3:30pm	LEF 0135

Advanced Clinical Practice in Speech; Advanced Graduate Laboratory Practicum in Speech-Language Pathology

(Perm req) Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

Contact department for information to register for this course.

Advanced Clinical Practice in Audiology; Advanced Graduate Laboratory Practicum in Audiology

(Perm req) Credits: 1-8 Grading Method: Regular

Clinical internship in selected off-campus facilities.

1301	Margaret McCabe	Seats (Total: 10)
	TBA	LEF 0135
	Contact instructor or department for details.	

Graduate Research Externship

Credits: 1-3 Grading Method: Regular, Audit

Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.

Contact department for information to register for this course.

Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HESP818C**Seminar in Language Processing; Seminar in Psycholinguistics**

Credits: 3 Grading Method: Regular

Information processing models of language, relationships among language memory and cognition.

Also offered as PSYC678. Credit granted for PSYC678 or HESP818C.

0101	Jared Novick	Seats (Total: 20)
	W 2:00pm - 4:30pm	JMZ 1224

HESP829**Clinical Internship Residency**

Credits: 1-9 Grading Method: Regular,
Audit

Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.

1301	Margaret McCabe	Seats (Total: 30)
	Contact instructor or department for details.	

HESP849**Capstone Research Project I**

Credits: 2 Grading Method: Regular

First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.

Contact department for information to register for this course.

HESP859**Capstone Research Project II**

Credits: 1-2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Contact department for information to register for this course.

HESP889**Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898**Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HESP899**Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HHUM**Honors Humanities****Spring 2016**

HHUM106**Honors Humanities: The Arts in Practice**Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA General Education: DSHU,
DSSP*Recommended: HHUM105. Restriction: Must be in the Honors Humanities Program. Credit only granted for: ARHU106 or HHUM106. Formerly: ARHU106.**Intensive study of a particular form or category of art (e.g., Southern musical traditions, the graphic novel, one-act plays, the blogosphere, the personal essay)), especially as practiced in or relevant to the campus and metropolitan area. Students produce an instance of this art as their final project for the course.*

0101	Korey Rothman	Seats (Total: 33)
	W 6:00pm - 8:40pm	ANA 0120

HHUM206**Honors Humanities Research Semester**Credits: 1 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP*Credit only granted for: ARHU206 or HHUM206. Formerly: ARHU206.**Independent research and completion of students' chosen Keystone Project developed during the preceding three semesters in HHUM105, HHUM106 and HHUM205. Will meet as a class during the early part of the semester and discuss issues in humanities scholarship including theory, methodology and pedagogy.*

0101	Aaron Allen	Seats (Total: 10)
	Tu 9:30am - 10:20am	ASY 3219
0102	Gregory Staley	Seats (Total: 10)
	Th 11:00am - 11:50am	TWS 1320

0103	Megan Kuyatt W 1:00pm - 1:50pm	Seats (Total: 10) ASY 3219
0104	Yvonne Slosarski Tu 2:00pm - 2:50pm	Seats (Total: 10) TWS 1321
0105	Yvonne Slosarski M 12:00pm - 12:50pm	Seats (Total: 10) ANA 0103
0106	Aaron Allen Th 4:00pm - 4:50pm	Seats (Total: 10) ANA 0103

HHUM328 Internship in Honors Humanities

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit
Supervised service-learning in Honors Humanities.

0101	Gregory Staley Contact instructor or department for details.	Seats (Total: 8)
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HHUM329 Undergraduate Teaching Assistantship

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit
Supervised pedagogical service-learning in the Honors Humanities curriculum.

0101	Gregory Staley Contact instructor or department for details.	Seats (Total: 5)
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HISP Historic Preservation Spring 2016

HISP630 Preservation Policy and Planning

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619M or HISP630. Formerly: HISP619M.

An opportunity is provided to look in depth at the national historic preservation program that is the federal, tribal, state, and local (city and county) public sector preservation activities being undertaken in accordance with public policy set by laws, regulations, standards, and guidelines.

0101	Constance Ramirez	Seats (Total: 15)
	Tu 7:00pm - 9:45pm	ARC 1117

HISP635 Social and Ethnic Issues in Historic Preservation Practice

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP628E or HISP635. Formerly: HISP628E.

This seminar course examines the broader social and ethnic dimensions o historic preservation practice that have impacted the field since the "culture wars" of the 1990's. Through weekly case studies of local, international sites, students will explore these issues and apply newly emerging methodologies to their final case study project.

0101	Brent Leggs	Seats (Total: 10)
	Th 7:00pm - 9:45pm	ARC 1117

HISP640 Historic Preservation Law, Advocacy and Public Policy

(Perm req)

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619C or HISP640. Formerly: HISP619C.

Introduce students to legal, advocacy, and public policy issues in the field of historic preservation. Student activities will be designed to teach basic working knowledge of relevant legal subjects, including historic preservation ordinances, state and federal preservation statutes, and important constitutional issues.

0101	Frederick Stachura	Seats (Total: 15)
	M 7:00pm - 9:45pm	ARC 1125

HISP645 Archaeology and Preservation

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619A or HISP645. Formerly: HISP619A.

An introduction to issues related to archaeological resources and preservation. Topics will include method and theory in American archaeology, archaeology in support of architectural history, archaeology and the NHPA, archaeological site preservation and conservation, and curation and collections management. Students will have a chance to work at an archaeological site to experience field excavation techniques and challenges, and will visit other archaeological sites and curation facilities in the area.

0101	Donald Linebaugh	Seats (Total: 15)
	Tu 4:00pm - 6:30pm	Location: TBA

HISP660 Internship in Historic Preservation

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.

Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.

0101	Donald Linebaugh	Seats (Total: 15)
	Contact instructor or department for details.	

HISP670 Conservation of Historic Places: Historic Materials, Building Systems, and Conservation

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619T or HISP670. Formerly: HISP619T.

Introduces students to the analysis of historic buildings, building systems and materials. The overall emphasis is on assessing the condition of a building and its parts, and formulating a preservation strategy based on it. Conservation methods will be discussed through the introduction of philosophies and specific techniques.

0101	Dennis Pogue	Seats (Total: 15)
	W 7:00pm - 9:40pm	ARC 1117

HISP701 Certificate Portfolio Project

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: Permission of ARCH-Historic Preservation Program.

Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.

0101	Donald Linebaugh	Seats (Total: 5)
Contact instructor or department for details.		

HISP710 Final Project in Historic Preservation I

Credits: 1 Grading Method: Regular,
Audit

Credit only granted for: HISP700 or HISP710. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.

0101	Dennis Pogue	Seats (Total: 15)
Contact instructor or department for details.		

HISP711 Final Project in Historic Preservation II

Credits: 2 Grading Method: Regular,
Audit

Credit only granted for: HISP700 or HISP711. Formerly: HISP700.

An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.

0101	Dennis Pogue	Seats (Total: 15)
	W 4:30pm - 6:30pm	ARC 1117

HIST History Spring 2016

HIST110 The Ancient World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: DSHU

Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture; religion and myth in the ancient Near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.

0101	Elizabeth Conner	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	KEY 0102	
	M 11:00am - 11:50am	KEY 0117	Discussion
0102	Elizabeth Conner	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	KEY 0102	
	Tu 9:30am - 10:20am	KEY 0117	Discussion
0103	Elizabeth Conner	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	KEY 0102	
	W 9:00am - 9:50am	KEY 0117	Discussion
0104	Elizabeth Conner	Seats (Total: 20)	
	MW 1:00pm - 1:50pm	KEY 0102	
	W 11:00am - 11:50am	KEY 0121	Discussion

HIST111

The Medieval World

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: SH

General Education: DSHS,
DVUP

The development of Europe in the Middle Ages; the role of religious values in shaping new social, economic, and political institutions; medieval literature, art and architecture.

0101	Colleen Ho	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0106	
	W 1:00pm - 1:50pm	KEY 0117	Discussion
0104	Colleen Ho	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0106	
	Th 12:30pm - 1:20pm	KEY 0119	Discussion
0106	Colleen Ho	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0106	
	F 11:00am - 11:50am	KEY 0121	Discussion
0107	Colleen Ho	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0106	
	F 12:00pm - 12:50pm	KEY 0117	Discussion

HIST131**The History of the American Dream**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: SH

General Education: DSHS,
SCIS*Credit only granted for: HIST131 or HIST289J. Formerly: HIST289J.*

An introduction to the way Americans thought of themselves in the past, and their often conflicting visions of what constituted the American Dream. Central questions will include whether or not Americans have always envisioned their country as a land of equality, opportunity, democracy, and freedom and whether or not their ideas of what these values meant changed or remained the same over time.

0101	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	Tu 12:30pm - 1:20pm	KEY 0121	Discussion
0102	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	Th 9:30am - 10:20am	KEY 0121	Discussion
0103	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	Th 12:30pm - 1:20pm	KEY 0121	Discussion
0104	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	F 9:00am - 9:50am	KEY 0121	Discussion
0105	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	F 10:00am - 10:50am	KEY 0121	Discussion
0106	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	F 12:00pm - 12:50pm	KEY 0121	Discussion
0107	Michael Ross	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0106	
	W 10:00am - 10:50am	KEY 0121	Discussion

0108	Michael Ross TuTh 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0109	Michael Ross TuTh 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0110	Michael Ross TuTh 11:00am - 11:50am Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 JMZ 3205	Discussion
0111	Michael Ross TuTh 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0112	Michael Ross TuTh 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 JMZ 0125	Discussion

HIST133

"God Wills It!" The Crusades in Medieval and Modern Perspectives

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Credit only granted for: HIST133, HIST289D, or RELS289D. Formerly: HIST289D.

An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.

Also offered as RELS289D. Credit granted for HIST133 or RELS289D.

0101	Vanessa Corcoran MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 TLF 1101	Discussion
0102	Vanessa Corcoran MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 20) KEY 0102 TLF 1103	Discussion

0103	Vanessa Corcoran	Seats (Total: 20)	
	MW 10:00am - 10:50am	KEY 0102	
	F 1:00pm - 1:50pm	TLF 1103	Discussion

HIST189B

Topics in History; Sustainability and History: The Maryland Experience

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Thematic exploration of a topic in history at an introductory level with emphasis on understanding what historians do and how history is relevant in the contemporary world.

Also offered as ENST140. Credit granted for ENST140 or HIST189B.

0101	Robert Friedel, Edward Landa	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 9:00am - 9:50am	TLF 1103	Discussion
0102	Edward Landa, Robert Friedel	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 11:00am - 11:50am	TLF 1103	Discussion
0103	Robert Friedel, Edward Landa	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 1117	
	F 12:00pm - 12:50pm	TLF 1103	Discussion

HIST200

Interpreting American History: Beginnings to 1877

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

0101	Christopher Bonner	Seats (Total: 20)	
	TuTh 9:30am - 10:20am	KEY 0106	
	Tu 11:00am - 11:50am	PLS 1119	Discussion
0102	Christopher Bonner	Seats (Total: 20)	
	TuTh 9:30am - 10:20am	KEY 0106	
	Tu 2:00pm - 2:50pm	KEY 0117	Discussion

0103	Christopher Bonner TuTh 9:30am - 10:20am Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 LEF 1221	Discussion
0108	Christopher Bonner TuTh 9:30am - 10:20am F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

HIST201

Interpreting American History: From 1865 to the Present

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: SH

General Education: DSHS,
DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

0101	Howard Smead MW 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 20) KEY 0106 LEF 1171	Discussion
0102	Howard Smead MW 12:00pm - 12:50pm M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0103	Howard Smead MW 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0104	Howard Smead MW 12:00pm - 12:50pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0105	Howard Smead MW 12:00pm - 12:50pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 EGR 1110	Discussion
0106	Howard Smead MW 12:00pm - 12:50pm Tu 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion

0107	Howard Smead MW 12:00pm - 12:50pm Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 PLS 1146	Discussion
0108	Howard Smead MW 12:00pm - 12:50pm Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 LEF 1222	Discussion
0109	Howard Smead MW 12:00pm - 12:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0110	Howard Smead MW 12:00pm - 12:50pm Tu 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0111	Howard Smead MW 12:00pm - 12:50pm M 9:00am - 9:40am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0112	Howard Smead MW 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0201	Robert Chiles TuTh 12:30pm - 1:20pm Tu 11:00am - 11:50am	Seats (Total: 20) KEY 0106 JMZ 0120	Discussion
0202	Robert Chiles TuTh 12:30pm - 1:20pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0203	Robert Chiles TuTh 12:30pm - 1:20pm Tu 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0124	Discussion
0204	Robert Chiles TuTh 12:30pm - 1:20pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion

0205	Robert Chiles TuTh 12:30pm - 1:20pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 TLF 1101	Discussion
0206	Robert Chiles TuTh 12:30pm - 1:20pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0207	Robert Chiles TuTh 12:30pm - 1:20pm Th 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0208	Robert Chiles TuTh 12:30pm - 1:20pm Th 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion

HIST208D

Historical Research and Methods Seminar; Auto-Biography in Medieval and Early Modern Eurasia

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: Permission of department.

0101	Jonathan Allen M 9:00am - 10:50am Contact instructor or department for details.	Seats (Total: 12) KEY 0107	
0201	Jonathan Allen Tu 12:00pm - 1:50pm Contact instructor or department for details.	Seats (Total: 12) KEY 0107	

HIST208E

Historical Research and Methods Seminar; The Politics of Popular Culture in the 20th Century U.S.

(Perm req)

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: Permission of department.

0101	Derek Leininger	Seats (Total: 12)
	M 2:00pm - 3:50pm	TLF 1103
	Contact instructor or department for details.	
0201	Derek Leininger	Seats (Total: 12)
	Tu 9:00am - 10:50am	KEY 0107
	Contact instructor or department for details.	

HIST208F

(Perm req)

Historical Research and Methods Seminar; Latin American Revolution

Credits: 3 Grading Method: Regular

Reading and research skills and methods. Research papers will be based on the topic of the seminar.

Prerequisite: Permission of department.

0101	Jesse Zarley	Seats (Total: 12)
	W 1:00pm - 2:50pm	KEY 0107
	Contact instructor or department for details.	
0201	Jesse Zarley	Seats (Total: 12)
	Th 1:00pm - 2:50pm	KEY 0107
	Contact instructor or department for details.	

HIST211

Love, Labor, and Citizenship: History of American Women Since 1880

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Also offered as: WMST211. Credit only granted for: HIST211 or WMST211.

An examination of women's changing roles in working class and middle class families, the effects of industrialization on women's economic activities and status, and women's involvement in political and social struggles including those for women's rights, birth control, and civil rights.

0101	Katarina Keane	Seats (Total: 20)
	MW 11:00am - 11:50am	KEY 0102
	M 1:00pm - 1:50pm	TLF 2103
		Discussion
0102	Katarina Keane	Seats (Total: 20)
	MW 11:00am - 11:50am	KEY 0102
	Tu 12:30pm - 1:20pm	KEY 0124
		Discussion

0103	Katarina Keane	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0102	
	M 2:00pm - 2:50pm	TLF 2103	Discussion
0104	Katarina Keane	Seats (Total: 20)	
	MW 11:00am - 11:50am	KEY 0102	
	W 12:00pm - 12:50pm	KEY 0117	Discussion

HIST215

Women in Western Europe to 1750

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Credit only granted for: HIST215 or HIST219A. Formerly: HIST219A.

An exploration of the theories and rhetoric about the nature and existence of women in the West, focusing on the experience of women from the hegemony of Classical Greece to the French Revolution, an era that marks the beginning of a continuous process of change. Emphasis will be on the period between 1250 and 1750, when the Western European world was fundamentally altered in every aspect and in every level of society, culture, and government.

0101	Sabrina Baron	Seats (Total: 40)	
	TuTh 3:30pm - 4:45pm	KEY 0126	

HIST219I

Special Topics in History; Religions of the Ancient Near East

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as JWST225 and RELS219A. Credit granted for JWST225, HIST219I, or RELS219A. Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.

0101	Matthew Suriano	Seats (Total: 40)	
	TuTh 5:00pm - 6:15pm	SQH 1101	

HIST220

The Atlantic World in the Age of Exploration, Conquest, and Settlement

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Credit only granted for: HIST219V or HIST220. Formerly: HIST219V.

Study of encounters, exchanges, and clashes between Native Americans, Europeans, and Africans in the early modern Atlantic World. Examines conquest and colonial systems; movement of men and women and mixing of peoples, and the persistence of native folkways.

0101	Alejandro Canequé	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0103

HIST222 Immigration and Ethnicity in America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Also offered as: AAST222. Credit only granted for: AAST222, AAST298A, HIST219L, or HIST222. Formerly: HIST219L.

The history of immigration and the development of diverse populations in the United States are examined. Topics include related political controversies, the social experiences of immigrants, ethnicity, generations, migration, inter-group relations, race, and diversity in American culture.

0101	Robert Chiles	Seats (Total: 40)
	MW 5:00pm - 6:15pm	KEY 0116

HIST232 The Historical Development of London

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

Restriction: Permission of Study Abroad Office required. Credit only granted for: GNED288 and HIST232. Formerly: GNED288.

Study Abroad in London, England. The history of London, beginning with its foundation by the Romans, continuing with the city's progressive political and cultural domination of England, the British Isles and the British Empire, and concluding with a look at the city in the 20th century. Students look at London through the eyes of contemporaries and historians while forming their own impressions of the city during course-based walking tours of the city.

Contact department for information to register for this course.

HIST235 History of Britain 1461 to 1714

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

British history from the War of the Roses to the Hanoverian succession; Yorkist and Tudor society and politics; the Renaissance and Reformation in England, Henry VIII through Elizabeth I; 17th-century crises and revolutions; intellectual and cultural changes; the beginnings of empire; the achievement of political and intellectual order.

0101	Sabrina Baron	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0116

HIST236 History of Britain 1688 to Present

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

British history from the Glorious Revolution of 1688 to the present. The revolution of 1688; the structure of 18th-century society and politics; economic and social change in the Industrial Revolution; 19th- and 20th-century political and social reform; imperialism; the impact of the First and Second World Wars on British society.

0101	Julie Taddeo	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0126

HIST237 Russian Civilization

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS

An overview of Russian history stressing the main lines of development of the Russian state and the evolution of Russian culture to the present day.

0101	Mikhail Dolbilov	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0103

HIST240 Europe in the Twentieth Century

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

Credit only granted for: HIST240 or HIST337. Formerly: HIST337.

Political, cultural, and economic developments in 20th-century Europe.

0101	Scott Moore	Seats (Total: 40)
	MW 2:00pm - 3:15pm	SQH 1117

HIST245 Reformers, Radicals, and Revolutionaries: The Middle East in the Twentieth Century

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Credit only granted for: HIST219W or HIST245. Formerly: HIST219W.

The 20th century was a period of dramatic changes in the Middle East. Within the global context of the two World Wars and the Cold War, countries in the region struggled with the effects of colonialism and painful processes of decolonization. The course offers a thematic-comparative approach to issues such as social and political reform, nationalism, the colonial experience, independence struggles, models of governance, political violence, and Islamism. Course lectures and the analysis and discussion of primary sources will lead students to understand that the peoples of the Middle East found answers to the challenges posed by Western dominance based on their specific historical, cultural and socio-economic circumstances.

0101	Peter Wien	Seats (Total: 40)
	TuTh 9:30am - 10:45am	KEY 0126

HIST251

Latin America Since Independence

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS, DVUP

Also offered as: HIST251. Credit only granted for: HIST251 or LASC251.

Introductory survey of the history of Latin America from the era of independence (c. 1810-1825) through the early 1980s. Major themes include independence and sovereignty, postcolonialism and neocolonialism, nation- and state-building, liberalism, citizenship, economic development and modernization, social organization and stratification, race and ethnicity, gender relations, identity politics, reform and revolution, authoritarianism and democratization, and inter-American relations.

Also offered as LASC251. Credit granted for HIST251 or LASC251.

0101	Karin Roseblatt	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 1117

HIST255

African-American History, 1865 - Present

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D General Education: DSHS

An introductory course in the African-American experience in the United States from 1865 to the present. Topics include the aftermath of the Civil War on US race relations, the rise of segregation, northern migration, World War I and II, Civil Rights Movements, and the Black Power Movement.

Also offered as AASP298A. Credit only granted for HIST255 or AASP298A.

0101	Elsa Barkley Brown	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0103

HIST269D

Special Topics in Study Abroad II; Barcelona: the City and its History

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269M Special Topics in Study Abroad II; History of Modern Italy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269O Special Topics in Study Abroad II; Mediterranean Politics and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST269Y Special Topics in Study Abroad II; Rome Republic & Empire

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST285 East Asian Civilization II

Credits: 3 Grading Method: Regular, CORE: SH, D General Education: DSHS
Pass-Fail, Audit

A survey of the historical development of modern Asia since 1700. Primarily concerned with the efforts of East Asians to preserve their traditional cultures in the face of Western expansion in the 18th and 19th centuries, and their attempts to survive as nations in the 20th century.

0101	James Gao	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	TYD 1114

HIST289O Lawlessness: From Pirates to Body-snatchers, Exploring the Legitimacy of Illicit Activity

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit SCIS

0101	Anne Rush	Seats (Total: 20)		
	MW 2:00pm - 2:50pm	KEY 0102		
	F 10:00am - 10:50am	TLF 2103	Discussion	
<i>Explores lawless behavior around the world 1600's to the present. Considers motives for and responses to lawlessness along with its relationship to national sovereignty and international security, human and property rights, and issues of personal freedom, scientific progress, and community survival.</i>				
0102	Anne Rush	Seats (Total: 20)		
	MW 2:00pm - 2:50pm	KEY 0102		
	F 11:00am - 11:50am	TYD 0111	Discussion	
0103	Anne Rush	Seats (Total: 20)		
	MW 2:00pm - 2:50pm	KEY 0102		
	F 1:00pm - 1:50pm	TLF 2103	Discussion	

HIST289R

Pocketbook Politics: A History of American Buying and Selling

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU,
SCIS

0101	Katarina Keane	Seats (Total: 20)		
	MW 1:00pm - 1:50pm	KEY 0106		
	Tu 11:00am - 11:50am	TLF 2103	Discussion	
0102	Katarina Keane	Seats (Total: 20)		
	MW 1:00pm - 1:50pm	KEY 0106		
	Tu 12:30pm - 1:20pm	SQH 1103	Discussion	
0103	Katarina Keane	Seats (Total: 20)		
	MW 1:00pm - 1:50pm	KEY 0106		
	W 2:00pm - 2:50pm	TLF 2103	Discussion	
0104	Katarina Keane	Seats (Total: 20)		
	MW 1:00pm - 1:50pm	KEY 0106		
	Th 2:00pm - 2:50pm	EDU 2102	Discussion	
0105	Katarina Keane	Seats (Total: 20)		
	MW 1:00pm - 1:50pm	KEY 0106		
	Th 11:00am - 11:50am	EDU 2101	Discussion	

0106	Katarina Keane MW 1:00pm - 1:50pm Th 12:30pm - 1:20pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0107	Katarina Keane MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 20) KEY 0106 EDU 2102	Discussion
0108	Katarina Keane MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 PLS 1111	Discussion
0109	Katarina Keane MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0126	Discussion
0110	Katarina Keane MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 WDS 1131	Discussion
0111	Katarina Keane MW 1:00pm - 1:50pm Tu 9:30am - 10:20am	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0112	Katarina Keane MW 1:00pm - 1:50pm Th 9:30am - 10:20am	Seats (Total: 20) KEY 0106 JMZ 1224	Discussion

HIST289T

Jesus, Mani, and Muhammad: The Dynamics of New Religious Movements

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP, SCIS

Also offered as RELS289M. Credit granted for HIST289T or RELS289M.

0101	Hayim Lapin TuTh 12:30pm - 1:45pm	Seats (Total: 40) KEY 0126
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HIST289V

What Does It Mean to be An American?

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

0101	Howard Smead MW 10:00am - 10:50am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0102	Howard Smead MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0103	Howard Smead MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0104	Howard Smead MW 10:00am - 10:50am F 11:00am - 11:50am	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0105	Howard Smead MW 10:00am - 10:50am F 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 KEY 0117	Discussion
0106	Howard Smead MW 10:00am - 10:50am F 2:00pm - 2:50pm	Seats (Total: 20) KEY 0106 KEY 0121	Discussion
0107	Howard Smead MW 10:00am - 10:50am M 12:00pm - 12:50pm	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0108	Howard Smead MW 10:00am - 10:50am M 9:00am - 9:50am	Seats (Total: 20) KEY 0106 TLF 2103	Discussion
0109	Howard Smead MW 10:00am - 10:50am W 9:00am - 9:50am	Seats (Total: 20) KEY 0106 TLF 2103	Discussion

HIST289Y

Zombies, Fear, and Contagion: A Cultural History of Public Health, Medicine, and Technology

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHS,
DSHU, DVUP, SCIS

0101	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 10:00am - 10:50am	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0102	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 1:00pm - 1:50pm	Seats (Total: 20) KEY 0106 TLF 1103	Discussion
0103	Chantel Rodriguez TuTh 2:00pm - 2:50pm W 11:00am - 11:50am	Seats (Total: 20) KEY 0106 WDS 1130	Discussion

HIST299

Directed Research

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST304

The Baddest Decade: The 1970s in American Film and American History

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HIST201. Also offered as: FILM352. Credit only granted for: HIST304 or FILM352.

The history of the United States and of its cinema in the 1970s.

This class meets in person once a week; the other class work is done online.

0101	Saverio Giovacchini W 4:00pm - 5:15pm Class time/details on ELMs	Seats (Total: 40) KEY 0103 ONLINE
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HIST307

The Holocaust of European Jewry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: JWST345. Credit only granted for: HIST307 or JWST345.

Roots of Nazi Jewish policy in the 1930's and during World War II: the process of destruction and the implementation of the "final solution of the Jewish problem" in Europe, and the responses made by the Jews to their concentration and annihilation.

0101	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Tu 12:30pm - 1:20pm	TLF 2103	Discussion
0102	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Tu 2:00pm - 2:50pm	TLF 2103	Discussion
0103	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Th 9:30am - 10:20am	TLF 2103	Discussion
0104	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Th 2:00pm - 2:50pm	KEY 0117	Discussion

HIST319J

Special Topics in History; Rome from Republic to Authoritarian Rule (100BC to 100AD)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Arthur Eckstein	Seats (Total: 32)	
	TuTh 9:30am - 10:45am	TLF 1101	

HIST319N

Special Topics in History; Modern History of Korea

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Charles Lilley	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	TLF 1101	

HIST319R

Special Topics in History; Genghis Khan and the Mongols: Destroyers of Worlds and Patrons of Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Colleen Ho	Seats (Total: 40)	
	MW 2:00pm - 3:15pm	LEF 2208	

HIST319X Special Topics in History; Travel Writing in the Americas

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	David Sartorius	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0116

HIST319Z Special Topics in History; The FBI 1909-1978

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

HIST321 Biblical History and Culture

Credits: 3 Grading Method: Regular

Also offered as: JWST324. Credit only granted for: HIST321 or JWST324. Formerly: HEBR333.

Study of the political, social, and religious development of the Jewish nation from its inception to its return from exile in Babylonia around 536 C.E. Focus on biblical texts, archaeological finds, and source materials from neighboring cultures to reconstruct political history and the development of religious concepts.

Also offered as JWST324. Credit will be granted for HIST321 or JWST324.

0101	Matthew Suriano	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	SQH 1103

HIST324 Classical Greece

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The ancient Greeks from Homer to Socrates, 800-400 B.C. Society and religion of the city-state, the art and literature of Periclean Athens, the Peloponnesian War, and the intellectual circle of Socrates.

0101	Arthur Eckstein	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	TLF 1101

HIST328C Selected Topics in History; Arts, Leisure, and Entertainment: Urban Life in Modern Iran

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Taught in English. Interdisciplinary historical exploration of the formation and transformations of urban public culture in modern Iran. Also offered as PERS398B. Credit granted for PERS398B or HIST328C.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2122

HIST328I Selected Topics in History; Women in Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

HIST328M Selected Topics in History; Red, White, and Black: Peoples and Communities in Early America

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Colonialism in North America through the eyes of African, European, and Native peoples from the 16th through the 18th centuries. Emphasizes peoples' ideas about human difference in the broader transformations of the colonial period.

0101	Christopher Bonner	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0103

HIST329X Special Topics in History; Mobility in History: Planes, Trains, Automobiles

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An examination of the role of different modes of transportation in history, with an emphasis on their cultural and social history. Examples include bicycles, railroads, automobiles, and airplanes in Europe and North America.

0101	Thomas Zeller	Seats (Total: 32)
	MW 2:00pm - 3:15pm	TLF 1101

HIST331 Europe in the High Middle Ages: 1000-1500

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: RELS341. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

Also offered as RELS341. Credit granted for HIST331 or RELS341.

0101	Marie Ito	Seats (Total: 40)
	MW 2:00pm - 3:15pm	SKN 0104

HIST333 The European Reformations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: HIST111 or HIST112; or permission of instructor required. Also offered as: RELS343.
Credit only granted for: HIST333 or RELS343.*

Examination of developments in European religion between 1450 and 1700; the late-medieval Church and its critics; rise of Protestant thought in Germany and its spread throughout Europe; reform efforts in the Catholic Church; religious wars and violence and their impact on state and society; consequences of religious reform in society and its impact on the family and women.

Also offered as RELS343. Credit granted for HIST333 or RELS343.

0101	Stefano Villani	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TLF 1103

HIST352 America in the Colonial Era, 1600-1763

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, or HIST254; or must have completed HIST156; or permission of instructor.

The founding of the English colonies in America and their European backgrounds, the reasons for the instability of colonial society to 1689 and the emergence of stable societies after 1689; the development of colonial regionalism, political institutions, social divisions, the economy, religion, education, urban and frontier problems in the eighteenth century.

0101	Miles Bradbury	Seats (Total: 32)
	TuTh 2:00pm - 3:15pm	TLF 1101

HIST354 Ante-Bellum America 1815-1861

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HIST200, HIST210, HIST213, HIST222, HIST254, or HIST275; or must have completed HIST156; or permission of instructor.

Traces how the strong nationalism after the War of 1812 transformed into the sectionalism that led to Civil War. The course concentrates on the controversies over slavery and other issues contributing to North-South antagonism, including Jacksonian democracy, capitalism, racism, immigration, manifest destiny and religious, social, and intellectual movements, each of which produced its own social tendencies and tensions.

0101	Robert Chiles	Seats (Total: 40)
	TuTh 9:30am - 10:45am	SQH 1103

HIST357 Recent America: 1945-Present

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

0101	Robert Chiles	Seats (Total: 40)
	MW 2:00pm - 3:15pm	TYD 2111

HIST376 History of Modern Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: ISRL342. Credit only granted for: HIST376, ISRL342, or JWST342.

History of modern Israel since the beginning of the Zionist settlement in 1882. Attention to different interpretations and narratives of Israel's history, including the historical and ideological roots of Zionism, the establishment of the State of Israel, ideological forces, wars, and the triumphs and crises of democracy.

Additional Note: Also offered as ISRL342. Credit granted for ISRL342 or HIST376.

0101	Moran Stern, Yoram Peri	Seats (Total: 60)
	MW 3:30pm - 4:45pm	SKN 0104

HIST386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Permission of ARHU-History department; and junior standing or higher.

The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.

Contact department for information to register for this course.

HIST396**Honors Colloquium II**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: CS General Education: DSSP

Prerequisite: Permission of ARHU-History department; or HIST395. Restriction: Must be in History program.

Uses a seminar approach to examine a major problem of historical interpretation across two or more diverse cultures in different periods. Topics vary and include: religion and society, the city in history, gender, slavery and emancipation, and modernization.

0101	Saverio Giovacchini	Seats (Total: 12)
	M 2:00pm - 4:00pm	KEY 0117
	Contact instructor or department for details.	

HIST399**Honors Thesis II**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Individualized research and preparation of History Honors Theses.

0101	Holly Brewer	Seats (Total: 12)
	Contact instructor or department for details.	

HIST405**Environmental History**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An introduction to the key issues and methods of environmental history. The scope of the subject is discussed, as well as its relationship with other disciplines, such as ecology, anthropology, and geography. A primary focus is environmental change in history with emphasis on the American experience.

0101	Robert Friedel	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 1117

HIST408F**Senior Seminar; Building Nations and Empires, Remaking the Land: Readings in Global Environmental History**

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department.

0101	Thomas Zeller	Seats (Total: 12)
	W 10:00am - 11:50am	TLF 2103
	Contact instructor or department for details.	

HIST408I**Senior Seminar; Literature and Jewish Life in Eastern Europe**

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Class discusses literary works by different authors describing Jewish life in Eastern Europe, and examine their contribution to the myths, images, and historiography of Eastern European Jewry. Scholarly articles will help us analyze the specific historical conditions that served as background for the different literary works.

0101	Rachel Manekin	Seats (Total: 5)
	TuTh 3:30pm - 4:45pm	SQH 1103

HIST408O**Senior Seminar; The Classical Polis: Athens and the Golden Age**

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department. Explores the classical Athenian polis as a unique social project that defined itself through the organization of space, political life, pleasure, and religion.

0101	Elizabeth Conner	Seats (Total: 12)
	W 10:00am - 11:50am	KEY 0117
	Contact instructor or department for details.	

HIST408Q**Senior Seminar; The Recent Past through Personal Narratives: The Practice of Oral History**

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

0101	Karin Roseblatt	Seats (Total: 12)
	M 11:00am - 12:50pm	TLF 1101
	Contact instructor or department for details.	

HIST408V

Senior Seminar; Power and Authority in Early America and the Atlantic World

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

0101	Holly Brewer	Seats (Total: 12)
	Tu 2:00pm - 3:50pm	KEY 0107
	Contact instructor or department for details.	

HIST408X

Senior Seminar; Britain at War: A Cultural History

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department.

0101	Julie Taddeo	Seats (Total: 12)
	M 10:00am - 11:50am	TLF 1103
	Contact instructor or department for details.	

HIST408Y

Senior Seminar; Hollywood and Politics

(Perm req)

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.

Prerequisite: Permission of department.

0101	Saverio Giovacchini	Seats (Total: 12)
	M 10:00am - 11:50am	TLF 2103
	Contact instructor or department for details.	

HIST419A Special Topics in History; The New Mediterranean Studies and Islam

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as RELS419V. Credit granted for HIST419A or RELS419V.

0101	Ahmet Karamustafa	Seats (Total: 7)
	W 3:30pm - 6:00pm	TLF 1103

HIST419B Special Topics in History; Empires, Revolutions, and Cold Wars: Modern Central and Eastern Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Now--in the face of democratic revolution and Russian-inspired war in Ukraine--is a crucial moment for students to study Central and Eastern Europe's past in empire, revolution, and nation-building. Covers 1800-present, using both primary and secondary sources.

0101	Piotr H Kosicki	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	ARC 1101

HIST419D Special Topics in History; Islam in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as RELS419W. Credit granted for HIST419D or RELS419W.

0101	Madeline Zilfi	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0116

HIST419E Special Topics in History; Ethnicity and Tribalism in Africa

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Paul Landau	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0103

HIST419K Special Topics in History; Victorian London c. 1830-1900

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

HIST419Q Special Topics in History; Jews of Eastern Europe

Credits: 3 Grading Method: Regular, General Education: DSHU
Pass-Fail, Audit

Also offered as JWST370. Credit only granted for JWST370 or HIST419Q. An exploration of the history of the Jews of Eastern Europe from the Polish Lithuanian Commonwealth until the Holocaust. Topics to be covered include religious, political, social, and cultural transformation of Jewish life in Eastern Europe in the context of the general political changes in the area.

0101	Rachel Manekin	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SQH 1121

HIST419T Special Topics in History; The Study of the Hebrew Bible in the Middle Ages

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as JWST459D. Credit only granted for HIST419T or JWST459D

0101	Bernard Cooperman	Seats (Total: 30)
	W 3:30pm - 5:15pm	TLF 1101
	Contact instructor or department for details.	

HIST419W Special Topics in History; The Other Side of the Black Atlantic

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as HIST619O. Credit granted for HIST419W or HIST619O.

0101	Paul Landau	Seats (Total: 8)
	Th 3:30pm - 6:00pm	TLF 2108

HIST419Z Special Topics in History; Law and Society in the Middle East Past and Present

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as HIST619E. Credit granted for HIST419Z or HIST619E.

0101	Madeline Zilfi	Seats (Total: 14)
	Th 3:00pm - 5:30pm	TLF 2103

HIST428A Selected Topics in History; Chinese Cities and Frontiers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	James Gao	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	TLF 1103

HIST428V Selected Topics in History; Founding Fathers and American Religion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as RELS429A. Credit will only be given for HIST428V or RELS429A.

0101	Miles Bradbury	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TLF 1103

HIST428W Selected Topics in History; Israel Narratives

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as ISRL448N. Credit offered for HIST428W or ISRL448N. The history of the Israeli-Palestinian conflict and how it is influenced by the narratives of each side. Part of the course will be interactive through distance learning technology with a parallel course at Tel Aviv University taught by one of their professors.

0101	Daniel Zisenwine	Seats (Total: 15)
	MW 9:00am - 10:50am	JMZ 1103

HIST428Z Selected Topics in History; Europe Since 1939

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Jeffrey Herf	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 0116

HIST429F Special Topics in History; MAC to Millennium: History of the University of Maryland

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Jason Speck, Anne Turkos	Seats (Total: 30)
	Th 2:00pm - 4:30pm	HBK 3210

HIST429R Special Topics in History; Imperial Russia's World Connections

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

0101	Mikhail Dolbilov	Seats (Total: 20)
	Tu 3:00pm - 5:00pm	TLF 2103
	Contact instructor or department for details.	

HIST431 Stuart England

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An examination of the political, religious, and social forces in English life, 1603-1714, with special emphasis on Puritanism and the English revolutions.

0101	Sabrina Baron	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0126

HIST436 Napoleon, the French Revolution, and the World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An argument for the broad continuity between the revolutionary and Napoleonic wars.

0101	Donald Sutherland	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0116

HIST455 Constitutional History of the United States: Since 1865

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

American public law and government, with emphasis on the interaction of government, law, and politics, and the relationship between the constitution and social forces and influences, the way in which constitutional principles, rules, ideas, and institutions affect events and are in turn affected by events. Major crises in American government and politics such as Reconstruction, the rise of corporate power, civil liberties during wartime, the New Deal era, the civil disorders of the 1960s.

0101	Michael Ross	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	TYD 2111

HIST463 History of the Old South

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The golden age of the Chesapeake, the institution of slavery, the frontier South, the antebellum plantation society, the development of regional identity, and the experiment in independence.

0101	Ira Berlin	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	TLF 1103

HIST469Q Study Abroad Special Topics IV; History of Spain I: Up to the 20th Century

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

HIST473 History of the Caribbean

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Prerequisite: HIST112, HIST113, HIST122, HIST123, HIST240, HIST250, or HIST251.

Offers a concise introduction to the history of the Caribbean regions from the Columbian voyages to the 20th century. Special emphasis is given to the dynamics of local social and cultural formations within the framework of the political and economic history of the Atlantic world.

0101	David Sartorius	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	TYD 2108

HIST483 History of Japan Since 1800

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Japan's renewed contact with the Western world and emergence as a modern state, industrial society, and world power, 1800-1931; and Japan's road to war, occupation, and recovery, 1931 to the present.

0101	Charles Lilley	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KEY 0126

HIST499

Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST601

History and Contemporary Theory

Credits: 3 Grading Method: Regular,
Audit

An introduction to contemporary theories in philosophy, literary criticism, cultural studies, anthropology, and other fields; and analysis of their usefulness to historians.

0101	Stefano Villani	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	TLF 1103

HIST607

The Teaching of History in Institutions of Higher Learning

(Perm req)

Credits: 1 Grading Method: Sat-Fail

For majors only.

0101	Marsha Rozenblit	Seats (Total: 15)
	Contact instructor or department for details.	
0201	David Freund	Seats (Total: 6)
	Contact instructor or department for details.	

HIST608B

General Seminar; American History

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

General seminar in student's major field of study (e.g., U.S.; Women and Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

Prerequisite: permission of department.

0101	Robyn Muncy	Seats (Total: 12)
	M 3:30pm - 6:00pm	TLF 2103

HIST608C General Seminar; General Seminar in European History

Credits: 3 Grading Method: Regular,
Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

0101	Donald Sutherland	Seats (Total: 12)
	Tu 6:00pm - 8:30pm	TLF 2101

HIST608N General Seminar; Global Interaction and Exchange

Credits: 3 Grading Method: Regular,
Audit

General seminar in student's major field of study (e.g., U.S.; Women an Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.

0101	Julie Greene	Seats (Total: 12)
	W 3:30pm - 6:00pm	TLF 2103

HIST610 Introduction to Museum Scholarship

Credits: 3 Grading Method: Regular,
Audit

Also offered as: AMST655. Credit only granted for: AMST655, ANTH655, or HIST610.

Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.

0101	Mary Alexander	Seats (Total: 15)
	M 4:00pm - 6:40pm	WDS 1130

HIST619A Special Topics in History; Independent Study

(Perm req) Credits: 1-3 Grading Method: Regular,
Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619B Special Topics in History; Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Prerequisite: permission of department.

Contact department for information to register for this course.

HIST619E Special Topics in History; Law and Society in the Middle East and Present

Credits: 3 Grading Method: Regular,
Audit

Also offered as HIST419Z. Credit granted for HIST419Z or HIST619E.

0101	Madeline Zilfi	Seats (Total: 6)
	Th 3:00pm - 5:30pm	TLF 2103

HIST6190 Special Topics in History; The Other Side of the Black Atlantic

Credits: 1-3 Grading Method: Regular,
Audit

Also offered as HIST419W. Credit granted for HIST419W or HIST6190.

0101	Paul Landau	Seats (Total: 8)
	Th 3:30pm - 6:00pm	TLF 2108

HIST619P Special Topics in History; The New Mediterranean Studies and Islam

Credits: 3 Grading Method: Regular,
Audit

Also offered as HIST419A. Credit granted for HIST419A or HIST619P.

0101	Ahmet Karamustafa	Seats (Total: 8)
	W 3:30pm - 6:00pm	TLF 1103

HIST638A Special Topics in History; 20th Century US: Politics, Culture, and Institutions

Credits: 3 Grading Method: Regular,
Audit

Special Topics in History.

0101	David Freund	Seats (Total: 12)
	Th 3:30pm - 6:00pm	KEY 0117

HIST639D Special Topics in History; Readings in Atlantic History

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in History.

0101	Alejandro Canequé	Seats (Total: 12)
	Th 3:30pm - 6:00pm	TLF 2100

HIST639F Special Topics in History; Judaism, Christianity, and Other Greco-Roman Religions

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in History.

Also offered as JWST648F. Credit granted for HIST639F or JWST648F.

0101	Hayim Lapin	Seats (Total: 12)
	Th 6:00pm - 8:30pm	TLF 2101

HIST639R Special Topics in History; Readings in American Social History

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in History.

0101	Ira Berlin	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	TLF 2100

HIST708 Directed Independent Reading for Comprehensive Examinations I

Credits: 1-4 Grading Method: Sat-Fail

Directed reading in preparation for Doctoral Comprehensive Examinations In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.

Contact department for information to register for this course.

HIST709	Directed Independent Reading for Comprehensive Examinations II Credits: 1-4 Grading Method: Sat-Fail <i>Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.</i> Contact department for information to register for this course.
HIST799 (Perm req)	Master's Thesis Research Credits: 1-6 Grading Method: Regular, Sat-Fail Contact department for information to register for this course.
HIST819A (Perm req)	Special Topics in History: Independent Research Credits: 1-3 Grading Method: Regular, Audit <i>Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.</i> Department permission required. Contact department for information to register for this course.
HIST819B (Perm req)	Special Topics in History: Independent Research Credits: 1-3 Grading Method: Regular, Audit <i>Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.</i> Department permission required. Contact department for information to register for this course.
HIST819N	Special Topics in History: Independent Research; Microhistory Research Seminar Credits: 1-3 Grading Method: Regular, Audit <i>Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.</i> A graduate research seminar that invites students in allfields and subject areas to execute a research paper that can be fruitfully explored using tools of micro history.

0101	Richard Bell	Seats (Total: 12)
	W 6:00pm - 8:30pm	TLF 2101

HIST848 Seminar in Modern European History; Seminar in Modern European History

Credits: 3 Grading Method: Regular,
Audit

0101	Jeffrey Herf	Seats (Total: 12)
	W 3:30pm - 6:00pm	TLF 2100

HIST898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

HIST899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular
Contact department for information to register for this course.

HLSA Health Services Administration Spring 2016

HLSA300 Introduction to Health Policy and Services

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

This course provides a multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. Concepts such as unintended consequences, association versus causation, evidence-based information, and the challenges of deconstructing available data, will be discussed throughout the course with the purpose of strengthening student abilities to analyze and challenge assumptions. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

0101	Dylan Roby	Seats (Total: 60)
	Th 4:00pm - 6:30pm	SPH 1303

HLSA601 Introduction to Health Systems

Credits: 3 Grading Method: Regular, Audit

Restriction: Must not have completed HLTH740. Credit only granted for: HLSA601, HLTH688A, or HLTH740. Formerly: HLTH688A or HLTH740.

Management and leadership skills for effective public health planning, organization, management and administration. Emphasis is on the role of institutions in learning and behavioral change process, organizational theory, administration management, and coordinating provision of community health services.

0101	Michel Boudreaux	Seats (Total: 30)
	M 4:00pm - 6:45pm	SPH 0308

HLSA688

(Perm req)

Independent Study

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty member of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

HLSA689

Field Work in Aging

Credits: 1-6 Grading Method: Regular

Individual instruction course.

0101	Lori Simon-Rusinowitz	Seats (Total: 1)
	Contact instructor or department for details.	

HLSA710

Healthcare Mangement: Foundations and Principles

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Master of Health Administration (Master's) program; or must be in Health Services Ph.D. (Doctoral) program.

Concepts and managerial activities essential to achieve the goals of health care organizations are examined and discussed. Managerial processes include planning, decision-making, etc. required to operate and change health care organizations will be discussed. Special emphasis will be placed on the leader/managers role in developing and maintaining an effective system for providing healthcare.

0101	Rada Dagher	Seats (Total: 25)
	Tu 4:00pm - 6:45pm	JMZ 3203

HLSA711

Credits: 3

Provides an analysis of health and health care services as economic goods. Using microeconomic theories, we will examine the behavior of health care providers, consumers, markets, and firms.

0101	Jie Chen	Seats (Total: 20)
	Tu 1:00pm - 3:45pm	SPH 0301

HLSA723

Credits: 3

Prerequisite: HLSA601.

Examination of the politics of the health policy process, including the effects of American political structure and institutions; economic and social factors; interest groups, classes, and social movements; media and public opinion, and other factors. The emphasis is both on understanding how public policy is made as well as how to influence the process. Students will learn about (1) how health policy is developed, adopted, and implemented, (2) the political, institutional, economic, social, and other factors that influence and shape the process, and (3) the basic approaches and tools of strategic advocacy.

0101	Dylan Roby	Seats (Total: 15)
	W 4:00pm - 6:45pm	SPH 0301

HLSA726

Credits: 3

Learn the basics of financial and management accounting within health care organizations. This introductory level course will focus on management accounting in health care and provide the student with basic analytical and practice oriented cost accounting concepts and problems. More advanced issues in the interface of accounting and health care policies will be discussed using articles and cases. The goal of the course is for the student to understand general and specific issues in the discipline of financial and management accounting. At the end of the course, the student will be able to describe and analyze key cost concepts related to decision-making and reporting and will be able to reflect on potential challenges with the use of management accounting tools in the specific setting of health care organizations. The focus is on management accounting, but financial accounting elements will be supplied in order to provide a full overview and insights of accounting in health care organizations.

0101	Margit Malmlose	Seats (Total: 20)
	W 1:00pm - 3:45pm	SPH 0227

HLSA740 Healthcare Strategic Planning and Marketing

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

An understanding of strategic management and marketing is provided which enables the students to lead the process of strategic planning in a healthcare organization. By conducting a marketing and strategic planning process, health care organizations are better able to cope with dramatic changes in technological, social, political, regulatory, and competitive aspects of the health care market. Strategic management enables organizations to identify issues unique to them, which hinder or promote organizational success. Through course readings, class discussions, analyses of secondary quantitative and qualitative data, and presentation of case studies, students gain a thorough understanding of the strategic management process. Students will apply core competencies through a comprehensive strategic and marketing plan. Plans will be defended through an oral presentation.

0101	Christopher King Tu 7:00pm - 9:45pm	Seats (Total: 25) SPH 0303
PLH1	Christopher King Class time/details on ELMs	Seats (Total: 30) ONLINE
<i>Restricted to students in the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health programs.</i>		

HLSA772 Healthcare Leadership and Communications

Credits: 3 Grading Method: Regular,
 Audit

Health care administrators rely on transformational leadership skills and insights to help their organizations rise to the social financial, public health, and technological challenges of the future. Students will assess and develop their leadership strengths, apply key leadership communication principles, and critically analyze relevant leadership models, exploring their utility in addressing key leadership issues in health care organizations. An underlying theme will be the identification of core values involved in health care delivery, integration of those values in personal and organizational missions, and effective communication to stakeholders.

0101	Diane Dixon M 1:00pm - 3:45pm	Seats (Total: 25) SPH 1302
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HLSA785 Internship in Public Health

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0201	Lori Simon-Rusinowitz	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Rada Dagher	Seats (Total: 10)
	Contact instructor or department for details.	
0501	Michel Boudreaux	Seats (Total: 10)
	Contact instructor or department for details.	
0601	Dylan Roby	Seats (Total: 10)
	Contact instructor or department for details.	
0701	Luisa Franzini	Seats (Total: 10)
	Contact instructor or department for details.	
0801	Stephen Thomas	Seats (Total: 10)
	Contact instructor or department for details.	
0901	Jie Chen	Seats (Total: 10)
	Contact instructor or department for details.	
PLH1	Negin Fouladi	Seats (Total: 15)
	Class time/details on ELMs	ONLINE
	<i>Restricted to students in the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health programs.</i>	

HLSA786**Capstone Project in Public Health**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLSA787**Minority Health and Health Equity**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.

A critical analysis of historical, political, economic, social, cultural, and environmental conditions that have produced an inequitable health status for racial and ethnic minorities in the United States.

0101	Stephen Thomas	Seats (Total: 10)
	M 4:00pm - 6:45pm	PLS 1162

HLSA799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

HLSA898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

HLSA899 Doctoral Dissertation Research

(Perm req)

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

HLSC Integrated Life Sciences Spring 2016

HLSC322 Principles of Genetics and Genomics

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HLSC207. Restriction: Must be in a major in UGST-HCOL-Integrated Life Sciences Program. Credit only granted for: HLSC322 or BSCI222.

Principles and mechanisms of heredity and gene expression, with a focus on the application of genomics to contemporary medicine, biotechnology, and societal issues.

0101	Raymond StLeger	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CCC 1205
	Tu 3:00pm - 4:50pm	LPA 1125 Discussion

0102	Raymond StLeger	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	CCC 1205	
	W 3:00pm - 4:50pm	LPA 1125	Discussion
0103	Raymond StLeger	Seats (Total: 25)	
	TuTh 11:00am - 12:15pm	CCC 1205	
	Th 4:00pm - 5:50pm	LPA 1125	Discussion

HLSC377

Research and Application in Life Sciences

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSSP

Prerequisite: HLSC207 and HLSC322. Restriction: Must be in the Integrated Life Sciences honors program.

A skills based course covering current research in the life sciences emphasizing novel approaches to complex real-world problems having a biological basis.

0101	Byrn Quimby	Seats (Total: 35)	
	TuTh 9:30am - 10:45am	LPA 0100	
0102	Byrn Quimby	Seats (Total: 35)	
	TuTh 12:30pm - 1:45pm	LPA 0100	

HLTH

Health

Spring 2016

HLTH106

Drug Use and Abuse

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

Restricted to majors or non-majors with less than or equal to 45 credits.

0101	Kenneth Beck	Seats (Total: 99)	
	TuTh 12:30pm - 1:45pm	ASY 2309	

HLTH106H

Drug Use and Abuse

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.

0101	Kenneth Beck	Seats (Total: 99)
	TuTh 12:30pm - 1:45pm	ASY 2309

HLTH130 Introduction to Public and Community Health

Credits: 3 Grading Method: Regular, CORE: SB General Education: DSHS
Pass-Fail, Audit

Restriction: Must not have completed HLTH105; and non-majors must have 45 or fewer credits. Credit only granted for: HLTH105 or HLTH130. Formerly: HLTH105.

An introduction to the theory and practice of public and community health. The influence of public health professionals on the past, present, and future health status of society through the examination of critical health issues will be described. Programming models, theories and policy development are included.

Attendance is expected on the first day of class. Restricted to majors or non-majors with less than or equal to 45 credits.

0101	Craig Fryer, Donna Howard	Seats (Total: 125)
	TuTh 2:00pm - 3:15pm	SPH 1312

HLTH140 Personal and Community Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

0101	James Butler	Seats (Total: 200)
	TuTh 9:30am - 10:45am	SPH 1312

HLTH140H Personal and Community Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

0101	James Butler	Seats (Total: 200)
	TuTh 9:30am - 10:45am	SPH 1312

HLTH200 Introduction to Research in Community Health

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of SPHL-Behavioral & Community Health department.

An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.

0101	Amelia Arria	Seats (Total: 100)
	MWF 2:00pm - 2:50pm	BPS 1250

HLTH230 Introduction to Health Behavior

Credits: 3 Grading Method: Regular, CORE: SB General Education: DSHS
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in HLTH130.

Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.

Restricted to majors or non-majors with less than or equal to 45 credits.

0101	Tracy Zeeger	Seats (Total: 125)
	TuTh 3:30pm - 4:45pm	SPH 1312

HLTH285 Controlling Stress and Tension

Credits: 3 Grading Method: Regular, CORE: IE General Education: DSHS
Pass-Fail, Audit

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

Restricted to majors or non-majors with less than or equal to 45 credits.

0101	Neha Trivedi, Hannah Allen	Seats (Total: 100)
	TuTh 8:00am - 9:15am	SPH 1312

HLTH285H **Controlling Stress and Tension**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE General Education: DSHS

Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.

0101	Hannah Allen, Neha Trivedi	Seats (Total: 100)
	TuTh 8:00am - 9:15am	SPH 1312

HLTH289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH300 **Biostatistics for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Elizabeth Seaman	Seats (Total: 100)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH300H **Biostatistics for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: Must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in Community Health program. Also offered as: EPIB300. Credit only granted for: EPIB300 or HLTH300.

An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.

0101	Elizabeth Seaman	Seats (Total: 100)
	TuTh 12:30pm - 1:45pm	SPH 1312

HLTH301 **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Bradley Kerridge	Seats (Total: 100)
	TuTh 9:30am - 10:45am	JMZ 0220

HLTH301H **Epidemiology for Public Health Practice**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in HLTH300. Restriction: Must be in one of the following programs (Community Health; Public Health Science). Also offered as: EPIB301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

0101	Bradley Kerridge	Seats (Total: 100)
	TuTh 9:30am - 10:45am	JMZ 0220

HLTH325 **Poor in America: Health and Wellbeing**

Credits: 3 Grading Method: Regular,
Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow	Seats (Total: 40)
	W 4:00pm - 6:45pm	SPH 1303

HLTH325H Poor in America: Health and Wellbeing

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Recommended: HLTH130; or HLTH140.

Using the ecological framework, students will explore the complicated relationship between poverty and health and well-being in the United States.

0101	Barbara Curbow	Seats (Total: 40)
	W 4:00pm - 6:45pm	SPH 1303

HLTH352 Portrayal of Drug Use and Addiction on Screen: Does Hollywood get it Right?

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in HLTH106. Restriction: Must be in Community Health program. Additional information: A new course for Community Health (HLTH) majors.

Through comparative analysis of public health research evidence with portrayals used in film, the student gains a deep understanding of substance abuse, its consequences, and theoretical foundations of its biopsychosocial etiology and radiating effects on families, communities and society.

0101	Amelia Arria	Seats (Total: 40)
	MWF 12:00pm - 12:50pm	SPH 1303

HLTH352H Portrayal of Drug Use and Addiction on Screen: Does Hollywood get it Right?

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in HLTH106. Restriction: Must be in Community Health program. Additional information: A new course for Community Health (HLTH) majors.

Through comparative analysis of public health research evidence with portrayals used in film, the student gains a deep understanding of substance abuse, its consequences, and theoretical foundations of its biopsychosocial etiology and radiating effects on families, communities and society.

0101	Amelia Arria	Seats (Total: 40)
	MWF 12:00pm - 12:50pm	SPH 1303

HLTH366 Behavioral and Community Issues in Public Health

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

0101	Evelyn King-Marshall MW 4:00pm - 5:15pm	Seats (Total: 140) BPS 1250
SG91	Chandria Jones Tu 5:00pm - 7:50pm <i>Restricted to Public Health Science majors (code 12140)</i>	Seats (Total: 40) Location: TBA
SG92	Chandria Jones Th 5:00pm - 7:50pm <i>Restricted to Public Health Science majors (code 12140).</i>	Seats (Total: 40) Location: TBA

HLTH374 Drugged, Drowsy & Distracted Driving: traffic safety issues for the new millenium

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Minimum grade of C- in HLTH200 and HLTH300. Restriction: Must be in Community Health program.

An in-depth examination of the current status of research, historical trends and policies regarding impaired driving. Designed to provide exposure to the research process for understanding the behavioral factors that contribute to impaired driving in our society.

0101	Kenneth Beck M 4:00pm - 6:45pm	Seats (Total: 20) SPH 0307
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HLTH374H Drugged, Drowsy & Distracted Driving: traffic safety issues for the new millenium

(Perm req) Grading Method: Regular,
Credits: 3 Audit

Prerequisite: Minimum grade of C- in HLTH200 and HLTH300. Restriction: Must be in Community Health program.

An in-depth examination of the current status of research, historical trends and policies regarding impaired driving. Designed to provide exposure to the research process for understanding the behavioral factors that contribute to impaired driving in our society.

0101	Kenneth Beck	Seats (Total: 20)
	M 4:00pm - 6:45pm	SPH 0307

HLTH377**Human Sexuality**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

Restricted to students with greater than 60 credits.

0101	Robin Sawyer	Seats (Total: 200)
	TuTh 11:00am - 12:15pm	SPH 1312
SG91	Robin Sawyer	Seats (Total: 105)
	Class time/details on ELMs	ONLINE
<i>Restricted to Junior BMGT-Shady Grove students majoring in Accounting, International Business, Marketing and to Senior BMGT-Shady Grove students majoring in Management. This section is taught on-line, but there will be one mandatory in-class meeting to review course requirements on Wednesday January 27. There are in-person exams at 3:30-4:30 pm on the following dates: Wednesday February 24; Wednesday March 30; and Wednesday May 4. The exam dates and times are non-negotiable. The meeting and exams will be held in Building III Room 3241.</i>		

HLTH377H**Human Sexuality**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

0101	Robin Sawyer	Seats (Total: 200)
	TuTh 11:00am - 12:15pm	SPH 1312

HLTH380 Peer Education: Alcohol and Other Drugs

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: HLTH106.

Peer training dealing with drug information and abuse to facilitate workshops in various outreach locations (dorms, Greek system, classrooms).

Contact department for information to register for this course.

HLTH381 Peer Education: Stress Management

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: HLTH285.

Peer training in different forms of stress management to facilitate workshops in various outreach locations (dorms, Greek system, classes).

Contact department for information to register for this course.

HLTH382 Peer Education: Sexuality and Communication

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: HLTH377.

Peer training in communication and issues of sexuality to facilitate workshops in various outreach locations (dorms, Greek system, classes).

Contact department for information to register for this course.

HLTH383 Peer Education: Reproductive Health

Credits: 3 Grading Method: Regular General Education: DSSP

Prerequisite: HLTH377.

Peer training in methods of birth control, sexually transmitted disease and AIDS education to facilitate workshops in the student Health Center and various outreach locations (dorms, Greek system, classes).

Contact department for information to register for this course.

HLTH386 Experiential Learning

(Perm req)

Credits: 3-6

Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

HLTH389

Topical Investigations

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH389V

Topical Investigations; An International Perspective on Domestic and Sexual Violence

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH391

Principles of Community Health I

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Prerequisite: HLTH140, HLTH230, HLTH300, and BSCI202. Corequisite: HLTH301. Restriction: Must be in Community Health program.

Broad overview of community health. Health promotion, consumer health, public health, school health, environmental health, preventive medicine, human biology and the health care system are examined. Each area's contribution to community health is discussed.

0101	Sylvette La Touche-Howard	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SPH 0308
0201	Sharon Desmond	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	SPH 0303

HLTH391H

Principles of Community Health I

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Prerequisite: HLTH140, HLTH230, HLTH300, and BSCI202. Corequisite: HLTH301. Restriction: Must be in Community Health program.

Broad overview of community health. Health promotion, consumer health, public health, school health, environmental health, preventive medicine, human biology and the health care system are examined. Each area's contribution to community health is discussed.

0101	Sylvette La Touche-Howard TuTh 11:00am - 12:15pm	Seats (Total: 40) SPH 0308
0201	Sharon Desmond TuTh 12:30pm - 1:45pm	Seats (Total: 40) SPH 0303

HLTH420 Methods and Materials in Health Education

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSOC

Prerequisite: Minimum grade of C- in HLTH301 and HLTH391. Corequisite: HLTH490.

The purpose of this course is to present the interrelationships of curriculum planning, methodology and the selection and use of successful public health presentation strategies. Special problems associated with public health presentations are discussed, and students become familiar with a variety of resources as well as with planning for and implementing demonstration presentations.

0101	Robin Sawyer TuTh 9:30am - 10:45am	Seats (Total: 18) SPH 0307
0201	M Reynolds TuTh 11:00am - 12:15pm	Seats (Total: 18) CSS 2324
0301	M Reynolds TuTh 12:30pm - 1:45pm	Seats (Total: 18) PHY 1219
0401	M Reynolds TuTh 9:30am - 10:45am	Seats (Total: 18) SPH 0301

HLTH434 Introduction to Public Health Informatics

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in one of the following programs (Community Health; Public Health Science) ; and must have earned a minimum of 60 credits. Credit only granted for: HLTH434 or HLTH498E. Formerly: HLTH498E.

Provides an overview of the field of public health informatics and the influence of technology on the public's health and well-being. Emphasizes the application of various technologies and computer/internet applications to support public health research and practice, including strategies to address new and emerging threats.

Restricted to Shady Grove Students in the Public Health Science program (12140), or by permission of Program Director.

SG91	Sandra Saperstein	Seats (Total: 30)
	W 9:00am - 11:50am	BLD3 3203
<i>Restricted to Shady Grove Students in the Public Health Science program (12140), or by permission of Program Director.</i>		

HLTH460 **Minority Health**

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: HLTH140 or HLTH230; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

0101	Mary Garza	Seats (Total: 50)
	W 4:00pm - 6:45pm	SPH 1302

HLTH460H **Minority Health**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: HLTH140 or HLTH230; or permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Health concerns of U.S. ethnic minority groups and factors placing them at elevated risk for disease and injury. Health education concepts and strategies to reduce disparities between their health status and the health status of the general population.

0101	Mary Garza	Seats (Total: 50)
	W 4:00pm - 6:45pm	SPH 1302

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLT471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLT471 or WMST471. The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

0101	Faika Zanjani	Seats (Total: 90)
	MWF 10:00am - 10:50am	SPH 1312

HLTH471H Women's Health

(Perm req)

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLT471 or WMST471.

The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: WMST471. Credit only granted for: HLT471 or WMST471. The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

0101	Faika Zanjani	Seats (Total: 90)
	MWF 10:00am - 10:50am	SPH 1312

HLTH489 Field Laboratory Projects and Workshop

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

Contact department for information to register for this course.

HLTH490 Principles of Community Health II

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: HLTH301 and HLTH391. Corequisite: HLTH420.

Students will be involved in the applied aspects of community health education. They will work with specific local community groups, planning, developing, implementing and evaluating a community health project. Health agencies and community health marketing techniques will be investigated.

0201	Sylvette La Touche-Howard MW 12:30pm - 1:45pm	Seats (Total: 20) SPH 0303
0301	Tracy Zeeger TuTh 12:30pm - 1:45pm	Seats (Total: 20) SPH 0307
0401	Sylvette La Touche-Howard TuTh 2:00pm - 3:15pm	Seats (Total: 20) SPH 0307
0501	Tracy Zeeger TuTh 11:00am - 12:15pm	Seats (Total: 20) EGR 3114

HLTH491 Community Health Internship

(Perm req)

Credits: 12

Grading Method: Sat-Fail

Prerequisite: HLTH490. Restriction: Must be in Community Health program.

Integrating theory with practice in a community health setting.

Class will meet on the following Wednesdays (January 27th, February 17th, April 6th, and May 4th) from 1pm-3:30pm in TWS 0310.

0101	Anne Anderson-Sawyer W 1:00pm - 3:30pm Contact instructor or department for details.	Seats (Total: 100) Location: TBA
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HLTH498O Special Topics in Health; Health Opinion Leaders

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH498P Special Topics in Health; Peer Mentors

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

HLTH653 Quantitative Research Methods II in Public Health

Credits: 3 Grading Method: Regular

Prerequisite: HLTH652. Restriction: Must be in a major within SPHL-Behavioral & Community Health department. Credit only granted for: HLTH653 or HLTH688T. Formerly: HLTH688T.

Intermediate and advanced statistics and procedures in health-related research for doctoral students with the focus on applications of these statistical methodological methods to public health research.

0101	Min Wang	Seats (Total: 10)
	M 4:00pm - 6:45pm	SPH 0302

HLTH665 Health Behavior I

Credits: 3 Grading Method: Regular,
Audit

The psychological, social psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behaviors.

For CHED and PCHL majors only.

0101	Robert Feldman	Seats (Total: 25)
	W 4:00pm - 6:45pm	SPH 0307
PLH1	Katherine Sharp	Seats (Total: 27)
	Class time/details on ELMs	ONLINE
<i>Restricted to students in the Master of Public Health Practice and Policy and Graduate Certificate in Principles of Public Health programs.</i>		

Public Health Communication

Credits: 3 Grading Method: Regular, Audit

Restriction: Non-SPH students must obtain permission from the instructor prior to registering. Credit only granted for: HLTH670 or HLTH671 and HLTH672. Formerly: HLTH670.

An exploration of the the broad and diverse field of health communication including medical encounters, everyday communication about health, advertising, news, public health campaigns, community outreach, public policy, and international programs. Theories and applied efforts that have been studied and documented will be examined.

0101	Juliette Christie Tu 4:00pm - 6:45pm	Seats (Total: 25) CCC 1115
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HLTH688

Special Problems in Health Education

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

HLTH711

Advanced Research Methods in Health

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710. Restriction: Must be in MPH: Community Health Education (Master's) program; or must be in Ph.D.: Public and Community Health (Doctoral) program.

Quantitative techniques, advanced research methods and design issues.

0101	Kerry Green	Seats (Total: 10)
	Tu 4:00pm - 6:45pm	SPH 0301

HLTH712

Applied Research Methods in Behavioral and Community Health

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH710.

Designed to build on the research skills obtained in HLTH710 and other fundamental research methods and statistics courses. Methods and problems that are commonly encountered in health education research will be discussed including examination of actual research studies. Complex behavioral research issues will be addressed with existing research data sets. With these data sets, students will develop an analytic plan and conduct data analysis.

0101	Bradley Boekeloo	Seats (Total: 15)
	Th 4:00pm - 6:45pm	SPH 0301

HLTH774 **Community Health Program Planning**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or permission of instructor. Credit only granted for: HLTH775 or HLTH774 and HLTH776. Formerly: HLTH775.

An introduction to the development, planning, and administration of community health programs. The overall goal of this course is to develop a program and conceptualize the implementation of the intervention.

0101	James Butler	Seats (Total: 25)
	W 4:00pm - 6:45pm	SPH 0225

HLTH780 **Community Health**

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: HLTH740 or HLTH780.

Overview of public health organizations, programs, and policies, including their structure and function, and their ability to change with changing community health needs.

For CHED and PCHL majors only.

0101	Sharon Desmond	Seats (Total: 25)
	M 4:00pm - 6:45pm	CSS 2416

HLTH785 **Internship in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: HLTH665, HLTH775, and HLTH780; or permission of SPHL-Behavioral & Community Health department.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

Class meets on Mondays: January 25, March 7, May 2.

0101	Anne Anderson-Sawyer	Seats (Total: 15)
Meets January 25, 2016 - May 3, 2016		
M 7:00pm - 9:00pm		SPH 2387F
Contact instructor or department for details.		

HLTH786 Capstone Project in Public Health

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

HLTH799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

HLTH898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HLTH899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

HONR Honors Spring 2016

FOR MORE DETAILED DESCRIPTIONS OF THE COURSES OFFERED, CLICK HERE TO VISIT THE DEPARTMENT WEBSITE

HONR208L Honors Seminar; Justice Matters: Law, Literature, and Film

Credits: 3 Grading Method: Regular

General Education: DSHU,
SCIS

0101	Sara Schotland	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PLS 1176

HONR208P Honors Seminar; Tolkien: Mythmaker for our Times

Credits: 3	Grading Method: Regular	General Education: DSHU
0101	Michelle Butler	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	KEY 0117

HONR209G Honors Seminar; Elements of Drawing for Non-Majors

Credits: 3 Grading Method: Regular General Education: DSSP
 Students must pay a \$40.00 studio lab fee.

0101	Patrice Kehoe	Seats (Total: 16)
	TuTh 12:30pm - 3:00pm	ASY 2315
<i>There is a \$40.00 lab fee for this course.</i>		

HONR209W Honors Seminar; War Stories: Personal Narratives, Fiction, and Film

Credits: 3 Grading Method: Regular General Education: DSHU, SCIS

0101	Sara Schotland	Seats (Total: 20)
	Tu 2:00pm - 4:30pm	PLS 1158

HONR218D Honors Seminar; Life, The Universe, and Everything

Credits: 3	Grading Method: Regular	General Education: DSNS
0101	Michael Miller	Seats (Total: 20)
	M 2:00pm - 4:30pm	CSS 0201

HONR218J Honors Seminar; Sustainability and Development: From the Individual to the Global

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	LEF 2208

HONR218M Honors Seminar; Elements of Music Composition for Non-Majors

Credits: 3 Grading Method: Regular General Education: DSSP

0101	William Evans	Seats (Total: 16)
	Tu 3:30pm - 6:00pm	PAC 1108

HONR218P Honors Seminar; Immigration: Personal Stories and Policy Changes

Credits: 3 Grading Method: Regular General Education: DSHU,
DVUP, SCIS

0101	Sara Schotland	Seats (Total: 20)
	Th 2:00pm - 4:30pm	SQH 1119

HONR218R Honors Seminar; Global Revolutions: From the Declaration of Independence to the Arab Spring and Ukraine

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Piotr H Kosicki	Seats (Total: 20)
	Tu 3:00pm - 5:30pm	JMZ 1124

HONR218T Honors Seminar; Political Theater: On Stage and in Washington

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Nelson Pressley	Seats (Total: 20)
	TuTh 9:30am - 10:45am	ANA 0120

HONR218W The Idea of Crime

Credits: 3 Grading Method: Regular CORE: SB General Education: DSHS,
SCIS

0101	John Laub	Seats (Total: 20)
	Th 2:00pm - 4:30pm	LEF 2165E

HONR219D On Beyond Dinosaurs: Patterns and Enigmas in Vertebrate Evolution

Credits: 3 Grading Method: Regular CORE: PS General Education: DSNS,
SCIS

0101	John Merck	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	KNI 1105

HONR219E Honors Seminar; The Psychology of Love and Money

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

0101	Ryan Curtis	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0118

HONR219F Honors Seminar; Heroes and Villains in American Film

Credits: 3 Grading Method: Regular General Education: DSHU

0101	Susan Pramschufer	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	HBK 0302H

HONR219M Honors Seminar; Why Do We Do What We Do? The Role of Motivation in People's Achievements and Choices

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Allan Wigfield	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 1320

HONR219T Honors Seminar: Surviving Natural Disasters: Learning from Hurricane Katrina, Big Earthquakes, and Other Natural Hazards

Credits: 3 Grading Method: Regular CORE: IE General Education: DSSP, SCIS

0101	Lewis Link	Seats (Total: 20)
	M 2:00pm - 4:30pm	HBK 1108
0201	Lewis Link	Seats (Total: 20)
	M 11:00am - 1:30pm	ASY 3211

HONR219Z Honors Seminar; Apocalypse Then and Now: World Traditions of the End Times

Credits: 3 Grading Method: Regular General Education: DSHU

0101	John Carlson	Seats (Total: 20)
	Tu 7:00pm - 9:30pm	LPA 0124
0201	John Carlson	Seats (Total: 20)
	W 7:00pm - 9:30pm	LPA 0124

HONR228F Honors Seminar; On the Run with Nowhere to Hide: Refugees in the 21st Century

Credits: 1 Grading Method: Regular,
Pass-Fail

This is a 1-credit, 5-week Honors workshop (meetings on March 7th, March 21st, March 28th, April 11th, and April 18th). This workshop is open to all majors and class years.

0101	Sarnata Reynolds	Seats (Total: 25)
	Meets March 7, 2016 - April 18, 2016	
	M 6:30pm - 9:00pm	TWS 1313

HONR228J Honors Seminar; The Caribbean Amidst the Global: Interrogating Issues of Pirates and Piracy

Credits: 3 Grading Method: Regular General Education: DSHS,
DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	W 2:00pm - 4:30pm	JMZ 1103

HONR228V Honors Seminar; Warfare and Society in Greece, Rome, and Byzantium

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Denis Sullivan	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 1122

HONR229A Honors Seminar; Taking Action in a Hungry, Hot, and Crowded World

Credits: 1 Grading Method: Regular,
Pass-Fail

Credit granted for HONR229A or HONR269G. No previous knowledge or experience is required; only a desire to learn about our global world and how each of us can contribute to positive change.

0101	Kathleen Mogelgaard	Seats (Total: 25)
	Meets January 25, 2016 - February 22, 2016	
	M 6:00pm - 8:30pm	TWS 1313

HONR2290 Ancient Rome in Historical Fiction: Narratives, Sources and Screen Adaptations

Credits: 3	Grading Method: Regular	CORE: HL	General Education: DSHU
0101	Judith Hallett	Seats (Total: 20)	
	TuTh 3:00pm - 4:40pm	WDS 1127	

HONR238C The Future of Energy and Climate Policy

Credits: 3	Grading Method: Regular	CORE: IE	General Education: DSSP
0101	Tyson Slocum	Seats (Total: 20)	
	W 3:00pm - 5:30pm	HBK 0123	

HONR238D Honors Seminar: The Contemporary American Musical Theatre: From Hair to Hairspray -- and Beyond

Credits: 3	Grading Method: Regular	CORE: HA, D	General Education: DSHU
0101	Korey Rothman	Seats (Total: 20)	
	MW 1:00pm - 2:15pm	KEY 0125	
0201	Korey Rothman	Seats (Total: 20)	
	MW 3:00pm - 4:15pm	KEY 0125	

HONR238G Honors Seminar; The Manhattan Project: A Century of Radioactivity, Nuclear Weapons, and Nuclear Power

Credits: 3	Grading Method: Regular	General Education: DSNS, SCIS
0101	William Walters	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	MTH 0402

HONR238K Honors Seminar; Infectious Ideas: Health and Disease in Modern America

Credits: 3	Grading Method: Regular	General Education: DSHS, SCIS
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0101	Chantel Rodriguez	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	KEY 0117

HONR238N Honors Seminar; Public Health and Contemporary Health Issues: "Saving Lives Millions at a Time"

Credits: 3	Grading Method: Regular	General Education: DSHS
0101	Kerry Green	Seats (Total: 20)
	W 1:00pm - 3:45pm	SPH 1302

HONR238Q Honors Seminar; Nuclear Waste: The Other Consequence of Nuclear Weapons

Credits: 3	Grading Method: Regular	General Education: DSNS, SCIS
0101	Richard Calabrese	Seats (Total: 20)
	MW 3:30pm - 4:45pm	CHE 2116

HONR238R Honors Seminar: Terrorism

Credits: 3	Grading Method: Regular	CORE: SH	General Education: DSHS
0101	Howard Smead	Seats (Total: 20)	
	M 4:00pm - 6:30pm	TLF 1103	

HONR238V Honors Seminar; Professionally Essential: Analysis & Visualization Skills in the Era of Big Data

Credits: 3	Grading Method: Regular	General Education: DSSP
0101	Patrick Killion	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	EGR 0312

HONR238Z Honors Seminar; Gladiators and Caesars: The Archaeology of Roman Spectacle

Credits: 3	Grading Method: Regular	General Education: DSHU
0101	Maryl Gensheimer	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ASY 3217

HONR239A Honors Seminar; Constructing and De-Constructing the Colonial Chesapeake

Credits: 3

Grading Method: Regular

General Education: DSHS,
DSSP, SCIS

0101	Dennis Pogue	Seats (Total: 15)
	W 2:00pm - 4:30pm	ARC 1117

HONR239C Honors Seminar: The Creative Process in Dance

Credits: 3

Grading Method: Regular

CORE: HA, D

General Education: DSHU

0101	Katie Sopoci Drake	Seats (Total: 15)
	MW 2:00pm - 3:15pm	PAC 1908

HONR239V Honors Seminar; Introduction to Visual Storytelling

Credits: 3

Grading Method: Regular

General Education: DSSP

For Non-Journalism majors only.

0101	Timothy Jacobsen	Seats (Total: 12)
	F 9:00am - 11:30am	KNI 2107

HONR248T Honors Seminar: The Harlem Renaissance: Art, Literature, Classic Blues

Credits: 3

Grading Method: Regular

CORE: HA, D

General Education: DSHU

0101	Renee Ater	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ASY 3217

HONR248Z Honors Seminar; Twitting #PoliticalCrises: Social Media, Big Data, and the Politics of Conflict

Credits: 3

Grading Method: Regular

General Education: DSSP,
DVUP, SCIS

0101	Ernesto Calvo	Seats (Total: 20)
	TuTh 9:30am - 10:45am	LEF 0214

HONR249L The Historical Development of London

Credits: 3

Grading Method: Regular

CORE: SH

Contact department for information to register for this course.

HONR258A Honors Seminar; Renewing the Body: The Science Behind Regeneration and Immortality

Credits: 3	Grading Method: Regular	General Education: DSSP
0101	Alexandra Bely	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	BPS 2249

HONR258D Honors Seminar; Stage, Screen, and Life: A Culture History of Drag

Credits: 3	Grading Method: Regular	General Education: DSHU, DSNS, SCIS
0101	Catherine Schuler	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 1103

HONR258F Honors Seminar; Incarceration Nation: American History Behind Bars

Credits: 3	Grading Method: Regular	General Education: DSHS
0101	Richard Bell	Seats (Total: 20)
	MW 2:00pm - 3:15pm	JMZ 2125

HONR259G Honors Seminar; Fairness, Inequality, and Democracy

Credits: 3	Grading Method: Regular	General Education: DSHS, SCIS
0101	Allan Drazen	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	MOR 1101

HONR259P Honors Seminar; Jane Austen

Credits: 3	Grading Method: Regular	General Education: DSHU
0101	Ingrid Satelmajer	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	HBK 0123

HONR268Z Honors Seminar; Catastrophic Animal and Human Disease Outbreaks: What Else Can We Do To Prevent Them?

Credits: 3	Grading Method: Regular	General Education: DSSP, SCIS
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Credit may only be granted for HONR268Z or ANSC277.

0101	Nathaniel Tablante	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	ANS 0402

HONR269E Honors Seminar; Exploring Key Issues of Globalization

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

0101	Dorith Grant-Wisdom	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	TWS 3136

HONR269L Honors Seminar; Cracking the Secrets of the Universe Using Computers: Re-discovering the Higgs & Searching for Invisible Matter-Part II

(Perm req)

Credits: 3 Grading Method: Regular General Education: DSNS, DSSP, SCIS

A second part of a two-semester Honors research seminar. Part one of this series was offered in the Fall 2015 semester. For permission to enroll, please email Dr. William Dorland at bdorland@umd.edu.

0101	Shabnam Jabeen, Sarah Eno	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PHY 3301

HONR269T Honors Seminar: Understanding U.S. Foreign Policy toward Afghanistan

Credits: 3 Grading Method: Regular CORE: SB, D General Education: DSHS, SCIS

0101	Temim Nusraty	Seats (Total: 10)
	Th 6:30pm - 9:00pm	ANA 0120
<i>This is a Global Classroom course. There will be approximately 4 or 5 weeks where this course will meet on Sundays for teleconferencing meetings with students in Kabul, Afghanistan instead of meeting at its normal weekly time on Thursday nights (exact dates TBA).</i>		

HONR278G Honors Seminar; Exploring How Foreign Policy is Developed

Credits: 3 Grading Method: Regular General Education: DSHS

0101	Temim Nusraty	Seats (Total: 20)
	M 6:30pm - 9:00pm	ANA 0120

HONR278R Honors Seminar; Creative People, Creative Practice

Credits: 3	Grading Method: Regular	General Education: DSSP
0101	James Fry	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 3160

HONR288L Medical Devices: Applied Ethics and Public Policy

Credits: 3	Grading Method: Regular	CORE: SB	General Education: DSSP
0101	Glenn Rahmoeller	Seats (Total: 20)	
	TuTh 2:00pm - 3:15pm	PLS 1176	

HONR288N Honors Seminar; Understanding the Global Economic Environment

Credits: 3	Grading Method: Regular	General Education: DSHS, SCIS
0101	Curtis Grimm	Seats (Total: 20)
	W 5:00pm - 7:30pm	VMH 3330H

HONR288P Honors Seminar; Why Do Things Burn?

Credits: 3	Grading Method: Regular	General Education: DSNS, SCIS
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To register for this class, you must not be an Engineering major.

0101	Marino diMarzo	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMP 2202

HONR289L Honors Seminar; Biofuels: Fact or Fiction?

Credits: 3	Grading Method: Regular	General Education: DSNS, SCIS
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0101	Steven Hutcheson	Seats (Total: 20)
	M 4:00pm - 6:30pm	MCB 1123

HONR289P Honors Seminar; How Do Innovators Think?

Credits: 3	Grading Method: Regular	General Education: DSSP, SCIS
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Credit will be granted for only one of the following: BMGT289B or HONR289P. Evening guest speakers 6:30pm-9:15pm are on three specific dates. Daytime meetings will be held every week.

0101	Mark Wellman	Seats (Total: 20)
	W 3:00pm - 4:50pm	VMH 3330H
	W 6:30pm - 9:15pm	VMH 1212

HONR298F Honors Seminar; Explaining Social Change: Fact and Fiction in Understanding Why our World Looks the Way It Does

Credits: 3

Grading Method: Regular

General Education: DSHS,
SCIS

0101	Meyer Kestnbaum	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ASY 3203

HONR338A Advanced Honors Seminar; Understanding the Israeli-Palestinian Conflict through Opposing Histories

Credits: 3

Grading Method: Regular

General Education: DSHU

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

Not open to students who have taken ISRL289I. Credit will be granted for HONR338A or ISRL329D. Israelis and Palestinians have been fighting over the Land of Palestine/Israel for over a century, but both sides date their relationship to the Land back many centuries, even millennia. We will look at the history but especially the "narratives" that the two sides employ to explain and justify, both to themselves and others, their claims to the land, and how these narratives have both molded the shape of the conflict and been molded by it, and changed overtime. This is not solely a history course, though it will cover the relevant history. It will focus on the importance of narratives to the continuation of the conflict, as well as elements relating to identity, religion, archaeology, morality, and human rights. No previous knowledge is expected, but those with such knowledge will find it useful.

0101	Paul Scham	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SQH 1123

HONR348D Advanced Honors Seminar; Innovation and Social Change: Do Good Now

Credits: 3

Grading Method: Regular

General Education: DSSP,
SCIS

A series of seminars, often interdisciplinary and sometimes team taught The subjects will vary from semester to semester.

Permission required. Also offered as BSOS388B and PUA388D. Credit will be granted for BSOS388B, HONR348D or PUA388D.

0101	Jennifer Littlefield	Seats (Total: 30)
	Tu 2:00pm - 4:30pm	ANA 0120

HONR348J Advanced Honors Seminar; Contemporary Social Issues

Credits: 3 Grading Method: Regular General Education: DVCC

A series of seminars, often interdisciplinary and sometimes team taught. The subjects will vary from semester to semester.

0101	Howard Smead	Seats (Total: 20)
	W 4:00pm - 6:30pm	KEY 0120

HONR348L Advanced Honors Seminar; Literature of London

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A series of seminars, often interdisciplinary and sometimes team taught. The subjects will vary from semester to semester.

Contact department for information to register for this course.

HONR348M Advanced Honors Seminar; Stock Market

Credits: 3 Grading Method: Regular General Education: DSHS,
DSSP, SCIS

A series of seminars, often interdisciplinary and sometimes team taught. The subjects will vary from semester to semester.

0101	Eric Wish, David McCandlish	Seats (Total: 20)
	Th 2:00pm - 4:50pm	ANA 0120

HONR349G Honors Colloquium; Big History: Earth, Life and Sustainability

Credits: 3 Grading Method: Regular General Education: DSNS

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

0101	Raghu Murtugudde	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	ANA 0120

HONR349V Honors Colloquium; Dubai: Global Immersion Experience

Credits: 3 Grading Method: Regular

A series of seminars, often interdisciplinary and sometimes team taught. Subjects may vary.

Contact department for information to register for this course.

HONR358B Honors Practicum

(Perm req)

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR358C Honors Practicum

(Perm req)

Credits: 3 Grading Method: Sat-Fail

For student section leaders of HONR100 or HONR200.

Contact department for information to register for this course.

HONR359B Honors Workshop; Alternatives to Violence

Credits: 3 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

0101	Colman McCarthy	Seats (Total: 20)
	M 2:30pm - 5:00pm	KEY 0119
0201	Colman McCarthy	Seats (Total: 20)
	M 12:00pm - 2:30pm	KEY 0121

HONR359X Honors Workshop

Credits: 1 Grading Method: Sat-Fail

Honors workshops are small seminar classes which concentrate on skill development.

Contact department for information to register for this course.

HONR378R Advanced Honors Seminar; Risk, Security and the Rule of Law

Credits: 3 Grading Method: Regular

A series of seminars, often interdisciplinary in character and sometimes team-taught. The subjects will vary from semester to semester.

From a political, criminological and socio-legal perspective the course addresses what social and legal dilemmas political and legal institutions face while governing security, guaranteeing safety and handling (inter)national crises on the one hand, and protecting the rule of law in a democratic yet complex society on the other hand.

0101	Maartje van der Woude, Brandee Pettus	Seats (Total: 25)
	Th 4:00pm - 6:30pm	JMZ 2207

HONR379**Honors Independent Study**

(Perm req)

Credits: 3 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Available only to University honors students.

Contact department for information to register for this course.

HONR379A**Honors Independent Study**

Credits: 1-6 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Contact department for information to register for this course.

HONR379W**Honors Independent Study; Writing Internship: Maryland General Assembly Pre-Professional Writing Internship**

(Perm req)

Credits: 6 Grading Method: Regular General Education: DSSP

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Also offered as ENGL388M. Credit granted for HONR379W or ENGL388M.

0101	Thomas Lowderbaugh	Seats (Total: 15)
	Contact instructor or department for details.	

HONR379Z**Honors Independent Study; Further Implications of Knowledge**

(Perm req)

Credits: 1-6 Grading Method: Regular

Involves reading or research directed by individual faculty, especially in areas outside of the student's major. Open only to University honors students.

Contact department for information to register for this course.

HONR388**Honors Thesis or Project**

(Perm req)

Credits: 3 Grading Method: Regular

Contact department for information to register for this course.

IMMR**Immigration Studies****Spring 2016****IMMR219B****Special Topics in Immigration and Migration Studies; US Latina/o Studies II: A Contemporary Overview 1960's to present**Credits: 3 Grading Method: Regular,
Pass-Fail, Audit*Thematic exploration of a topic in immigration or migration studies history at an introductory level with emphasis on understanding how the movement of people is relevant in the contemporary world.*

Also offered as USLT202. Credit granted for IMMR219B or USLT202. Interdisciplinary course on emerging populations of Latinos in the 20th century with a focus on the multiple waves of latino immigration as a result of neocolonialism, imperialism, globalization and transnationalism. Examines the positioning of immigrant waves in the political, sociocultural and historical contexts of US Latinidades.

0101	Perla Guerrero	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1101

IMMR319D**Special Topics in Immigration and Migration Studies; Immigrant Communities, Leadership, and Organizing**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit*Thematic exploration of a topic in immigration or migration studies with emphasis on understanding how the movement of people is relevant in the contemporary world.*

Also offered as AMST399Y and USLT498V or AAST398X. Credit granted for AAST398X or IMMR319D or USLT498V. Class explores the political, social, and historical forces that have shaped the current immigration context. Using popular education and project-based learning, students will critically analyze how public policies related to immigration are affecting young immigrants, with special focus on undocumented youth and students.

0101	Jude Paul Dizon, Yvette Lerma	Seats (Total: 20)
	Th 4:00pm - 6:30pm	BPS 1232

IMMR319G**Special Topics in Immigration and Migration Studies; Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as AMST328V or AAST398E. Credit granted for AMST328V or AAST398E or IMMR319G. An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.

0101	Thu Khuc	Seats (Total: 38)
	TuTh 2:00pm - 3:15pm	SQH 1121

IMMR319J

Special Topics in Immigration and Migration Studies; Refugee Studies Remixed! Resettlement, the Second Generation and Beyond

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Thematic exploration of a topic in immigration or migration studies with emphasis on understanding how the movement of people is relevant in the contemporary world.

Also offered as AAST398Y or AMST399X. Credit granted for IMMR319J or AAST398Y or AMST399X. Course raises up the experiences of underrepresented Asian American groups in the U.S., with a focus on Southeast Asian Americans (Hmong, Cambodian, Laotian, Vietnamese, and other groups). It begins with attention to the ways in which colonialism and the wars in Southeast Asia have impacted the Southeast Asian Diaspora and resettlement. We will then turn our attention to contemporary issues: identity formation, generational divides, and cooperation; and policies like affirmative action, welfare reform, health care, labor, and mass incarceration. Class will also explore connections to other refugee communities such as Burmese and Bhutanese, as well as non-Asian populations, such as contemporary refugees from Syria and Central America.

0101	Monica Thammarath	Seats (Total: 30)
	W 4:00pm - 6:30pm	SQH 2120

IMMR400

Vital Voices: Oral Histories of the Immigrant Experience

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Recommended: HIST222; or IMMR200. Credit only granted for: HIST428N or IMMR400. Formerly: HIST428N.

An exploration of the dynamic subject of U.S. immigrant experience through the scope of individual immigrant life stories in a global context. Course will include an overview of U.S. and global immigration patterns and an introduction to the practice of oral history.

0101	Thomas Castillo	Seats (Total: 30)
	TuTh 5:00pm - 6:15pm	KEY 0126

INAG Institute of Applied Agriculture Spring 2016

INAG099 Cooperative Education

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Restriction: Co-op is open to sustainable agriculture and agricultural business management students who have completed a minimum of 45 credit hours, have a minimum GPA of 2.0, and have advisor's permission. Cooperative Education, the culminating 22-week field experience in your program, is a collaborative partnership between the Institute of Applied Agriculture and the employer to provide a quality academic and practical training for students. Each student's co-op will vary according to the unique career direction the student wishes to pursue and is intended to accompany seminars and activities previously acquired in the IAA program. Upon completion of the course, students will have established contacts in the industry and substantial documentation to develop a personal portfolio.

0101	Meredith Epstein	Seats (Total: 15)
	Contact instructor or department for details.	

INAG101 Computer Applications

Credits: 3 Grading Method: Regular,
Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Roy Walls	Seats (Total: 20)
	MW 10:00am - 11:50am	ANS 0509

INAG104 Agricultural Mathematics

Credits: 3 Grading Method: Regular,
Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Larisa Cioaca	Seats (Total: 20)
	MWF 9:00am - 9:50am	JUL 1123

INAG105

Soils and Fertilizers

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department.

Soils and Fertilizers is an introductory course for students entering careers related to applied agricultural production. The course is divided into three subject areas; soil properties, soil fertility, and environmental concerns of using soils for agricultural production. Emphasis is placed upon the characteristics of Maryland soils which are similar to the soils in the mid-Atlantic region. The importance of nutrient management and non-point source pollution of the Chesapeake Bay are covered in the course.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Kenneth Ingram	Seats (Total: 25)
	MW 1:00pm - 1:50pm	JUL 1123
	F 1:00pm - 2:50pm	JUL 1111 Lab
0102	Kenneth Ingram	Seats (Total: 14)
	MW 1:00pm - 1:50pm	JUL 1123
	M 3:00pm - 4:50pm	JUL 1111 Lab

INAG106

Pesticide Use and Safety

Credits: 2 Grading Method: Regular

Additional information: Priority enrollment will be given to students in the IAA program or to students in the College of Agriculture and Natural Resources (AGNR).

An Overview of pesticide use and safety. Topics include environmental protection, labeling, personal safety, first aid, formulation and chemistry, equipment, disposal, storage, record-keeping and liability. The course prepares students to take the Maryland State test for a private applicator's license.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Ronald Myers	Seats (Total: 50)
	W 3:00pm - 4:50pm	JUL 1123

INAG110**Oral Communication**

Credits: 3 Grading Method: Regular,
Audit

General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

0101	Gerald Powell MWF 8:00am - 8:50am	Seats (Total: 19) PLS 1176
0201	Gerald Powell MWF 9:00am - 9:50am	Seats (Total: 19) CHE 2145
0301	Eric Dunning MWF 9:00am - 9:50am	Seats (Total: 19) CSS 0201
0401	Robert Ballenger MWF 9:00am - 9:50am	Seats (Total: 19) PLS 1184
0501	Eric Dunning MWF 10:00am - 10:50am	Seats (Total: 19) CSS 0201
0701	Robert Ballenger MWF 10:00am - 10:50am	Seats (Total: 19) PLS 1158
0801	Anthony Pagnotti MWF 11:00am - 11:50am	Seats (Total: 19) EGR 1110
0901	Gerald Powell MWF 11:00am - 11:50am	Seats (Total: 19) EGR 3114
1001	Robert Ballenger MWF 11:00am - 11:50am	Seats (Total: 19) HBK 0105
1101	Michelle Molinaro MWF 12:00pm - 12:50pm	Seats (Total: 19) CSS 0201
1201	Anthony Pagnotti MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1176

1301	JoEllen Barnhart MWF 12:00pm - 12:50pm	Seats (Total: 19) PLS 1180
1401	Edward Priola MWF 1:00pm - 1:50pm	Seats (Total: 19) CSS 0201
1501	Michelle Molinaro MWF 1:00pm - 1:50pm	Seats (Total: 19) JMP 2202
1601	Edward Priola MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1115
1701	Michelle Molinaro MWF 2:00pm - 2:50pm	Seats (Total: 19) PLS 1158
1801	Amy Fisher MW 3:00pm - 4:15pm	Seats (Total: 19) PLS 1115
1901	JoEllen Barnhart MW 3:00pm - 4:15pm	Seats (Total: 19) PLS 1184
2001	Edward Priola MW 4:30pm - 5:45pm	Seats (Total: 19) PLS 1180
2101	JoEllen Barnhart MW 4:30pm - 5:45pm	Seats (Total: 19) JMZ 2120
2201	Amy Fisher M 6:00pm - 8:50pm	Seats (Total: 19) PLS 1115
2301	Amy Fisher W 6:00pm - 8:50pm	Seats (Total: 19) PLS 1146
2401	Eric Dunning TuTh 8:00am - 9:15am	Seats (Total: 19) JUL 1123
2501	JoEllen Barnhart TuTh 8:00am - 9:15am	Seats (Total: 19) PLS 1168
2601	Robert Ballenger TuTh 9:30am - 10:45am	Seats (Total: 19) JUL 1105

2701	Gerald Powell TuTh 9:30am - 10:45am	Seats (Total: 19) EGR 1104
2801	JoEllen Barnhart TuTh 9:30am - 10:45am	Seats (Total: 19) SYM 0215
2901	Eric Dunning TuTh 9:30am - 10:45am	Seats (Total: 19) ARC 1127
3001	Amy Fisher TuTh 11:00am - 12:15pm	Seats (Total: 19) CSS 0201
3101	Anthony Pagnotti TuTh 11:00am - 12:15pm	Seats (Total: 19) PLS 1158
3201	Michelle Molinaro TuTh 11:00am - 12:15pm	Seats (Total: 19) CHE 2145
3301	Amy Fisher TuTh 12:30pm - 1:45pm	Seats (Total: 19) CHE 2116
3401	Robert Ballenger TuTh 12:30pm - 1:45pm	Seats (Total: 19) SYM 0209
3501	Eric Dunning TuTh 12:30pm - 1:45pm	Seats (Total: 19) ARC 1127
3601	Anthony Pagnotti TuTh 2:00pm - 3:15pm	Seats (Total: 19) EGR 3114
3701	Edward Priola TuTh 2:00pm - 3:15pm	Seats (Total: 19) PLS 1146
3801	Edward Priola TuTh 3:30pm - 4:45pm	Seats (Total: 19) HBK 1108
3901	Michelle Molinaro TuTh 3:30pm - 4:45pm	Seats (Total: 19) PLS 1162
4001	Gerald Powell Tu 6:00pm - 8:50pm	Seats (Total: 19) BPS 1232

INAG110S Oral Communication

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, verbal and nonverbal communications affect the communication process as it emerges in the work place. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

0601	Anthony Pagnotti	Seats (Total: 19)
	MWF 10:00am - 10:50am	CCC 1111

INAG114 Plant Propagation

Credits: 3 Grading Method: Regular,
Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Kenneth Ingram	Seats (Total: 25)
	TuTh 2:00pm - 4:00pm	JUL 1111

INAG199 Special Problems

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Justin Mathias	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Meredith Epstein	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Kenneth Ingram	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Roy Walls	Seats (Total: 5)
	Contact instructor or department for details.	

0501	Meredith Epstein	Seats (Total: 5)
	Contact instructor or department for details.	
0601	Glori Hyman	Seats (Total: 5)
	Contact instructor or department for details.	

INAG199C **Special Problems; in AgriScience**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	

INAG204 **Agricultural Business Management**

Credits: 3 Grading Method: Regular

Recommended: INAG102. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. May not count toward any BMGT major or minor requirement.

This course integrates various concepts related to managing a profitable agricultural business. Topics include business management and decision making, preparing a business plan, financial analysis and budgeting, risk and investment management, and small business taxes, among others. Students will gain relevant knowledge and skills as they complete the comprehensive business plan for successfully managing an agricultural business.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Meredith Epstein	Seats (Total: 27)
	MWF 2:00pm - 2:50pm	JUL 1123

INAG205 **Analyzing Alternative Enterprises**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Meredith Epstein	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JUL 1111

INAG206

Agricultural Business Law

Credits: 3 Grading Method: Regular, Audit

Restriction: Students at the Institute of Applied Agriculture (IAA); or students at the College of Agriculture and Natural Resources (AGNR); or permission may be granted to other students based on available space. Additional information: Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.

This course introduces various legal concepts and their relationships to agricultural business and transactions. Topics include torts, criminal law, contracts, promissory notes, property, partnerships, business entities, employment, and bankruptcy, among others. Students will gain a general understanding of the legal system that will help them manage and/or operate profitable agricultural businesses.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Michael Grady, Glori Hyman	Seats (Total: 30)
	W 5:30pm - 8:30pm	JUL 1123

INAG207

Power Machinery

Credits: 3 Grading Method: Regular

Prerequisite: INAG250 or PLSC204. Restriction: Must be in a major within the AGNR-Institute of Applied Agriculture department; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority will be given to IAA students and permission will be granted to AGNR students and others on a space available basis.

The basic principles of compact equipment management, including selection, maintenance, operation, adjustment and troubleshooting of agricultural machinery and power units will be studied. The methods of power development, measurement, transmission through power trains both mechanical and hydraulic will be studied. A systematic disassembly, analysis, diagnosis and reassembly of a small engine will be completed by each student.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Roy Walls	Seats (Total: 14)	
	Tu 9:00am - 10:50am	ANS 0504	
	Th 8:00am - 10:50am	ANS 0504	Lab

INAG215 Business Management Principles for Turf Facilities

Credits: 3 Grading Method: Regular,
Audit

Recommended: INAG107; or PLSC305. Restriction: Must be in a major within the AGNR-Institute of Applied Agriculture department; or must be in one of the following programs (Plant Sciences; Plant Sciences: Horticulture & Crop Production; Plant Sciences: Landscape Management; Plant Sciences: Plant Science; Plant Sciences: Turf & Golf Course Mgmt) ; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Enrollment priority is given to students majoring in Turfgrass and Golf Course Management in the Institute of Applied Agriculture and Plant Science and Landscape Architecture.

An advanced course in turfgrass management with emphasis on development of maintenance operating budgets for labor, fertilization, pest control, and supplemental cultural practices for golf courses and athletic field facilities. An overview of the current trend in golf course design and construction and in athletic field construction practices will be covered. Students will be responsible for a presentation concerning some phase of turfgrass management relating to golf course or athletic field operations.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Justin Mathias	Seats (Total: 20)	
	TuTh 3:00pm - 4:15pm	JUL 1123	

INAG235 Irrigation and Drainage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of instructor. Also offered as: PLSC235. Credit only granted for: INAG235, PLSC235 or PLSC489I. Formerly: PLSC489I. Additional information: Priority enrollment will be given to IAA and PLSC majors. By permission for available seats.

An overview of U.S. and state water doctrines and plant water use rates Irrigation systems for residential and athletic field use will be discussed covering such topics as hydraulics, sprinkler spacing, pipe selection and sizing, pumps, controllers, valves, and irrigation trouble shooting. Surface and subsurface drainage for turfgrass sites will also be covered.

0101	Justin Mathias	Seats (Total: 22)
	TuTh 11:00am - 1:00pm	JUL 1123
	<i>Open to AGNR and IAA students only.</i>	

INAG244 Herbaceous Annuals and Perennials

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Kenneth Ingram	Seats (Total: 20)
	MW 11:00am - 11:50am	JUL 1111
	W 3:00pm - 4:50pm	JUL 1111 Lab

INAG248 Topics in Sustainable Agriculture

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Through readings, class discussions, and guest speakers this one-credit seminar course exposes students to current trends, concerns and research in sustainable agriculture. It allows students to explore various interest areas and discuss a variety of topics as they relate to sustainable practices.

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

0101	Meredith Epstein	Seats (Total: 20)
	Tu 6:00pm - 7:50pm	JUL 1123

INAG250 Fundamentals of Agricultural Mechanics

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of AGNR-Institute of Applied Agriculture department. Also offered as: PLSC204, PLSC204. Credit only granted for: ENBE200 or PLSC204 or INAG250. Formerly: ENBE200. Additional information: Priority given to IAA majors and AGNR students whose major requires this course. Permission will be granted to other students on seats available basis.

A comprehensive course that teaches the fundamentals of agricultural related mechanics. Lecture and lab exercises will cover the broad range of topics associated with agricultural mechanics including electricity, plumbing, welding processes, and wood and metal working applications. Emphasis will be given to the design and installation of electrical circuits. It will also include project planning and implementation including development of safety protocols for each area of study and introduction of GPS equipment and software for survey data collection.

0101	Roy Walls	Seats (Total: 10)
	MW 2:00pm - 5:00pm	ANS 0504

INAG299A Supervised Work Experience; Internship I

Credits: 1 Grading Method: Sat-Fail

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

Contact department for information to register for this course.

INAG299B Supervised Work Experience; Internship II

Credits: 1 Grading Method: Regular

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department.

Contact department for information to register for this course.

INFM Information Management Spring 2016

INFM600 Information Environments

Credits: 3 Grading Method: Regular,
Audit

Role and function of information in organizations. Organizational environment and its influence on internal and external communication, organizational structure and management, organizational culture, information flow, organizational identity. Shared mental models and group decision making. Differences among types of organizations. Information policy.

Prerequisite: GVPT429A-Geographic Information system for Social Science Research; or an introductory course in Geographical Information System.

0101	Everett Wiggins	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0109

INFM605 Users and Use Context

Credits: 3 Grading Method: Regular, Audit

Use of information by individuals. Nature of information. Information behavior and mental models. Characteristics of problems, task analysis, problem solving, and decision making. Methods for determining information behavior and user needs. Information access. Information technology as a tool in information use.

0101	Howard Killam	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 0109

INFM612 Management of Information Programs and Services

Credits: 3 Grading Method: Regular, Audit

Administration of information programs, services, and projects, including the role of leadership in management; developing mission, vision, and goals; providing effective management for results; managing professionals; financial management; and professional conduct and ethical issues.

SG01	Taverekere Srikantiah	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INFM620 Introduction to Strategic Information Management

Credits: 3 Grading Method: Regular, Audit

Prerequisite: INFM612; or LBSC631; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Defining and identifying strategic information in an organization. Characteristics of strategic information management, including the principles, practices, issues, and programs involved with the strategic management and protection of information in organizations.

0101	Timothy Summers	Seats (Total: 30)
	M 2:00pm - 4:45pm	HBK 0109

INFM700 Information Architecture

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INFM603; or permission of instructor.

Principles and techniques of information organization and architecture for the Web environment. Structured description of digital resources, including data modeling techniques, metadata schemes, and user-oriented navigation systems.

0101	Katy Lawley	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 1112

INFM711 Financial Management of Information Projects

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INFM600; and must have completed or be concurrently enrolled in INFM612.

Techniques and strategies of planning and executing successful projects Project budgets, work breakdown structures and scheduling techniques, earned value, tracking and reporting project costs, risk management, best practices, and cost/benefit analysis.

SG01	Vikas Sahasrabudhe	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INFM719 Independent Study

Credits: 1-3 Grading Method: Regular

Intensive individual study under faculty supervision.

Contact department for information to register for this course.

INFM732 Information Audits and Environmental Scans

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INFM600; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM730, INFM731, or INFM732.

Techniques to assess the information needs of an organization to meet its strategic objectives. Methods of identifying information sources and gaps and of scanning the internal and external environment to identify changes that affect the organization. Application of information audits and environmental scans in strategic information management.

0101	Taverekere Srikantaiah	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 4115

INFM737 Information Management Capstone Experience

Credits: 3 Grading Method: Sat-Fail

Prerequisite: INFM736; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Additional information: Taken near the end of student's program.

In-depth problem analysis and resolution. Capstone project.

0101	Kathy Weaver	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 0105
SG01	Kathy Weaver	Seats (Total: 30)
	Th 6:00pm - 8:45pm	BLD1 108

INFM750 From Data to Insights

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INFM603 and INST737; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM750.

Application of data science techniques to unstructured, real-world datasets including social media and geo-referenced sources. Techniques and approaches to extract information relevant for experts and non-experts in areas that include smart cities, public health, and disaster management.

0101	Vanessa Frias-Martinez	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0115

INFM799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

INST Information Studies Spring 2016

INST301 Introduction to Information Science

Credits: 3 Grading Method: Regular,
Audit

Introduction of information and knowledge management systems and their use by organizations. Concepts underlying database, information retrieval, and knowledge management systems will be discussed. Focus on the processes of becoming informed and the products which result from those processes, as well as the innovative approaches to information problem solving within an organization.

0101	Douglas Oard	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	ITV 1111

INST607 E-Government: Information, Communication, and Policy

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718E, INST607, or LBSC708E. Formerly: INFM718E and LBSC708E.

Use of the Internet and other technologies by governments to provide information, communication, and services. Social, policy, and technological impacts on access and use, government-citizen interactions, digital divides. Roles of cultural institutions in supporting e-government access. Social media, collaborative, and entrepreneurial uses of e-government.

SG10	Ursula Gorham-Oscilowski, John Bertot	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

INST611 Privacy and Security in a Networked World

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies.

Evolving conceptualization of privacy and security issues in light of technological developments in the 21st century. Analysis of legal, ethical, design, and socially constructed challenges that organizations and individuals face when developing privacy and security solutions.

0101	Jessica Vitak	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 0109

INST612 Information Policy

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of INFO-College of Information Studies. Credit only granted for: INST612 or LBSC625. Formerly: LBSC625.

Nature, structure, development and application of information policy. Interactions of social objectives, stakeholders, technology and other forces that shape policy decisions.

SG01	Nicholas Proferes	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST621**Managing Digital Innovations in Organizations**

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718Z or INST621. Formerly: INFM 718Z.

Students will learn the main theoretical perspectives on managing digital innovations, become familiar with current best practices of innovating with IT, and develop innovation skills in various organizational settings such as project teams, functional departments, organizations, communities, and society at large.

0101	Ping Wang	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 1108

INST627**Data Analytics for Information Professionals**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies.

Skills and knowledge needed to craft datasets, perform quantitative and qualitative analyses, and develop information resources that bridge the gap between raw data and decision makers' needs.

0101	Yla Tausczik	Seats (Total: 30)
	Tu 2:00pm - 4:45pm	HBK 0109
0201	Susan Winter	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0105

INST630**Introduction to Programming for the Information Professional**

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies.

An introduction to computer programming intended for students with no previous programming experience. Topics include fundamentals of programming and current trends in user interface implementation that are relevant to information professionals.

0101	William Kules	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0103

Human-Computer Interaction Design Methods

Methods of user-centered design, including task analysis, low-tech prototyping, user interviews, usability testing, participatory design, and focus groups.

0101	Marshini Chetty	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 0109

Policy and Ethics in Digital Curation

Discussion of strategies to address intellectual property, privacy, security and other policy and ethics concerns raised by the curation of digital records and data.

0101	Katie Shilton	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 0115

Design Thinking and Youth

Methods of design thinking specifically within and for youth contexts, including user-centered design, understanding user needs, ideation, contextual design, participatory design, iterative prototyping, and visual design. These topics will specifically be studied in the context of designing with and for youth.

SG01	Tamara Clegg	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

Advanced Usability Testing

Prerequisite: Permission of instructor; or (INFM605 or INST631). Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM702 or INST702. Formerly: INFM702.

Usability testing methods -- how to design and implement them both for desktop and mobile sites. Students will learn the complex process of facilitating usability testing and how to synthesize test data into a report.

0101	Vera Rhoads	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	PLS 1111

INST709

Independent Study

Credits: 1-3 Grading Method: Regular,
Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

0101	Jennifer Preece	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Brian Butler	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Michael Kurtz	Seats (Total: 5)
	Contact instructor or department for details.	
0501	Allison Druin	Seats (Total: 5)
	Contact instructor or department for details.	
0601	Vedat Diker	Seats (Total: 5)
	Contact instructor or department for details.	
0701	Kenneth Heger	Seats (Total: 5)
	Contact instructor or department for details.	
0801	Douglas Oard	Seats (Total: 5)
	Contact instructor or department for details.	
0901	Ricardo Punzalan	Seats (Total: 5)
	Contact instructor or department for details.	
1001	Ann Weeks	Seats (Total: 5)
	Contact instructor or department for details.	

1101	Paul Jaeger	Seats (Total: 5)
	Contact instructor or department for details.	
1201	June Ahn	Seats (Total: 5)
	Contact instructor or department for details.	
1301	Jennifer Golbeck	Seats (Total: 5)
	Contact instructor or department for details.	
1401	Kari Kraus	Seats (Total: 5)
	Contact instructor or department for details.	
1501	Beth St Jean	Seats (Total: 5)
	Contact instructor or department for details.	
1601	Vanessa Frias-Martinez	Seats (Total: 5)
	Contact instructor or department for details.	
1701	John Bertot	Seats (Total: 5)
	Contact instructor or department for details.	
1801	Ping Wang	Seats (Total: 5)
	Contact instructor or department for details.	
1901	Kathy Weaver	Seats (Total: 5)
	Contact instructor or department for details.	
2001	Katy Lawley	Seats (Total: 5)
	Contact instructor or department for details.	
2101	Katie Shilton	Seats (Total: 5)
	Contact instructor or department for details.	
2201	Leah Findlater	Seats (Total: 5)
	Contact instructor or department for details.	
2301	Marshini Chetty	Seats (Total: 5)
	Contact instructor or department for details.	
2401	Jessica Vitak	Seats (Total: 5)
	Contact instructor or department for details.	
2501	Taverekere Srikantaiah	Seats (Total: 5)
	Contact instructor or department for details.	

2601	Niklas Elmqvist	Seats (Total: 5)
	Contact instructor or department for details.	
2701	Mega Subramaniam	Seats (Total: 5)
	Contact instructor or department for details.	
2801	Diane Barlow	Seats (Total: 5)
	Contact instructor or department for details.	
2901	Susan Winter	Seats (Total: 5)
	Contact instructor or department for details.	
3001	Richard Marciano	Seats (Total: 5)
	Contact instructor or department for details.	
3101	Yla Tausczik	Seats (Total: 5)
	Contact instructor or department for details.	
3201	Andrea Wiggins	Seats (Total: 5)
	Contact instructor or department for details.	
4501	Tamara Clegg	Seats (Total: 5)
	Contact instructor or department for details.	
4801	Kent Norman	Seats (Total: 3)
	Contact instructor or department for details.	

INST728B
Special Topics in Information Studies; Digitization and Legacy Holdings

Credits: 3 Grading Method: Regular,
Audit

Selected topics in information studies.

0101	Kenneth Heger	Seats (Total: 15)
	W 2:00pm - 4:45pm	HBK 4113

INST728C
Special Topics in Information Studies; The History and Future of the Book

Credits: 3 Grading Method: Regular,
Audit

Selected topics in information studies.

0101	Kari Kraus	Seats (Total: 15)
	Tu 6:00pm - 8:45pm	PLS 1172

INST728Q Special Topics in Information Studies; Visual Analytics

Credits: 3 Grading Method: Regular,
 Audit

Selected topics in information studies.

0101	Niklas Elmqvist	Seats (Total: 30)
	Th 2:00pm - 4:45pm	HBK 0109

INST728R Special Topics in Information Studies; Data Management

Credits: 3 Grading Method: Regular,
 Audit

Selected topics in information studies.

0101	Andrea Wiggins	Seats (Total: 30)
	M 2:00pm - 4:45pm	HBK 4113

INST728Z Special Topics in Information Studies; Inclusive Technology Design

Credits: 3 Grading Method: Regular,
 Audit

Selected topics in information studies.

Pre-requisite: INST631 or Permission of the Instructor.

0101	Leah Findlater	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 1112

INST733 Database Design

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: LBSC690, LBSC671, or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST733 or LBSC793. Formerly: LBSC793.

Principles of user-oriented database design. Requirements analysis. Data modelling. Data integrity and security and multi-user databases. Implementing an information system using a database management system (DBMS).

0101	Katy Lawley Tu 2:00pm - 4:45pm	Seats (Total: 30) HBK 2119
SG01	Vedat Diker Class time/details on ELMs	Seats (Total: 20) ONLINE

INST736

Computational Linguistics II

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LING723 or CMSC723; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Also offered as: CMSC773, LING773. Credit only granted for: INST736, INST728C, CMSC773, LING773, or LBSC774.

Natural language processing with a focus on corpus-based statistical techniques. Topics include: stochastic language modeling, smoothing, noisy channel models, probabilistic grammars and parsing; lexical acquisition, similarity-based methods, word sense disambiguation, statistical methods in NLP applications; system evaluation.

0101	Philip Resnik W 1:30pm - 4:00pm	Seats (Total: 30) WDS 0104
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INST737

Digging Into Data

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INST627; and (LBSC690, LBSC671, or INFM603). Or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

An exploration of some of the best and most general approaches to get the most information out of data through clustering, classification, and regression techniques.

0101	A Seyed Th 6:00pm - 8:45pm	Seats (Total: 25) HBK 0109
SG01	Vanessa Frias-Martinez W 6:00pm - 8:45pm <i>The class will meet on January 27, February 24, March 29 and April 27. All other coursework will be done online.</i>	Seats (Total: 30) BLD3 4230

INST742 Implementing the Curation and Management of Digital Assets

Credits: 3 Grading Method: Regular

Prerequisite: INST640; or permission of instructor. Restriction: Election of the Digital Curation Specialization; and permission of INFO-College of Information Studies.

Management of and technology for application of digital curation principles in specific settings. Characteristics, representation, conversion, and preservation of digital objects. Application of standards for digitization, description, and preservation. Planning for sustainability, risk mitigation and disaster recovery.

0101	Robert Spangler	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 0103

INST744 Solving Problems in Digital Curation - Capstone Course

Credits: 3 Grading Method: Regular

Restriction: Must be enrolled in the Curation and Management of Digital Assets (CMDA) Certificate.

Project-based course that applies digital curation principles and techniques first-hand in an institutional program setting. The focus is on a well-defined project that constitutes a learning experience and also permits the student to contribute to the ongoing work of the host institution. The project must address one or more aspects of digital curation: design and implementation for long-term digital curation of a discrete collection; application of technologies and standards for digitization, description, and preservation of digital assets; or implementation of strategies to provide access to a digital collection.

CT01	Michael Kurtz	Seats (Total: 13)
	Meets March 7, 2016 - May 27, 2016	
	Class time/details on ELMs	ONLINE

INST745 Introduction to Digital Arts Curation

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: INST640; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Representation and curation of art artifacts through digital media, with a focus on how to collect and manage born-digital artifacts, digitized artifacts, and their related data and metadata.

0101	Trevor Owens	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 0105

INST799**Master's Thesis Research**

Credits: 1-6 Grading Method: Regular, Sat-Fail

0101	Jennifer Preece Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0301	Brian Butler Contact instructor or department for details.	Seats (Total: 5)
0401	Michael Kurtz Contact instructor or department for details.	Seats (Total: 5)
0501	Allison Druin Contact instructor or department for details.	Seats (Total: 5)
0601	Vedat Diker Contact instructor or department for details.	Seats (Total: 5)
0701	Kenneth Heger Contact instructor or department for details.	Seats (Total: 5)
0801	Douglas Oard Contact instructor or department for details.	Seats (Total: 5)
0901	Ricardo Punzalan Contact instructor or department for details.	Seats (Total: 5)
1001	Ann Weeks Contact instructor or department for details.	Seats (Total: 5)
1101	Paul Jaeger Contact instructor or department for details.	Seats (Total: 5)
1201	June Ahn Contact instructor or department for details.	Seats (Total: 5)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 4)
1401	Kari Kraus Contact instructor or department for details.	Seats (Total: 5)

1501	Beth St Jean	Seats (Total: 5)
	Contact instructor or department for details.	
1601	Vanessa Frias-Martinez	Seats (Total: 5)
	Contact instructor or department for details.	
1701	John Bertot	Seats (Total: 5)
	Contact instructor or department for details.	
1801	Ping Wang	Seats (Total: 5)
	Contact instructor or department for details.	
1901	Kathy Weaver	Seats (Total: 5)
	Contact instructor or department for details.	
2001	Katy Lawley	Seats (Total: 5)
	Contact instructor or department for details.	
2101	Katie Shilton	Seats (Total: 5)
	Contact instructor or department for details.	
2201	Leah Findlater	Seats (Total: 5)
	Contact instructor or department for details.	
2301	Marshini Chetty	Seats (Total: 5)
	Contact instructor or department for details.	
2401	Jessica Vitak	Seats (Total: 5)
	Contact instructor or department for details.	
2501	Taverekere Srikantaiah	Seats (Total: 5)
	Contact instructor or department for details.	
2601	Niklas Elmqvist	Seats (Total: 5)
	Contact instructor or department for details.	
2701	Mega Subramaniam	Seats (Total: 5)
	Contact instructor or department for details.	
2801	Diane Barlow	Seats (Total: 5)
	Contact instructor or department for details.	
2901	Susan Winter	Seats (Total: 5)
	Contact instructor or department for details.	

3001	Richard Marciano	Seats (Total: 5)
	Contact instructor or department for details.	
3101	Yla Tausczik	Seats (Total: 5)
	Contact instructor or department for details.	
3201	Andrea Wiggins	Seats (Total: 5)
	Contact instructor or department for details.	
4301	Ben Bederson	Seats (Total: 3)
	Contact instructor or department for details.	
4501	Tamara Clegg	Seats (Total: 5)
	Contact instructor or department for details.	

INST808 Seminar in Research Methods and Data Analysis

Credits: 3 Grading Method: Regular,
 Audit

Topics and issues in information studies research. Design and conduct of research project.

0101	Jessica Vitak	Seats (Total: 30)
	Tu 6:00pm - 8:45pm	HBK 1112

INST809 Individualized Teaching Experience

Credits: 3-5 Grading Method: Regular,
 Audit

Introduction to the techniques and challenges associated with design, delivery, and evaluation of courses offered at the University level. The doctoral student will work one-on-one with a faculty member in the development and co-teaching of a graduate level course.

0101	Jennifer Preece	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Brian Butler	Seats (Total: 3)
	Contact instructor or department for details.	
0401	Michael Kurtz	Seats (Total: 3)
	Contact instructor or department for details.	

0501	Allison Druin	Seats (Total: 5)
	Contact instructor or department for details.	
0601	Vedat Diker	Seats (Total: 5)
	Contact instructor or department for details.	
0701	Kenneth Heger	Seats (Total: 5)
	Contact instructor or department for details.	
0801	Douglas Oard	Seats (Total: 5)
	Contact instructor or department for details.	
0901	Ricardo Punzalan	Seats (Total: 3)
	Contact instructor or department for details.	
1101	Paul Jaeger	Seats (Total: 5)
	Contact instructor or department for details.	
1201	June Ahn	Seats (Total: 5)
	Contact instructor or department for details.	
1301	Jennifer Golbeck	Seats (Total: 5)
	Contact instructor or department for details.	
1401	Kari Kraus	Seats (Total: 5)
	Contact instructor or department for details.	
1501	Beth St Jean	Seats (Total: 5)
	Contact instructor or department for details.	
1601	Vanessa Frias-Martinez	Seats (Total: 5)
	Contact instructor or department for details.	
1701	John Bertot	Seats (Total: 4)
	Contact instructor or department for details.	
1801	Ping Wang	Seats (Total: 5)
	Contact instructor or department for details.	
1901	Kathy Weaver	Seats (Total: 5)
	Contact instructor or department for details.	
2001	Katy Lawley	Seats (Total: 5)
	Contact instructor or department for details.	

2101	Katie Shilton	Seats (Total: 5)
	Contact instructor or department for details.	
2201	Leah Findlater	Seats (Total: 5)
	Contact instructor or department for details.	
2301	Marshini Chetty	Seats (Total: 5)
	Contact instructor or department for details.	
2401	Jessica Vitak	Seats (Total: 5)
	Contact instructor or department for details.	
2501	Taverekere Srikantaiah	Seats (Total: 5)
	Contact instructor or department for details.	
2601	Niklas Elmqvist	Seats (Total: 5)
	Contact instructor or department for details.	
2701	Mega Subramaniam	Seats (Total: 3)
	Contact instructor or department for details.	
2801	Diane Barlow	Seats (Total: 5)
	Contact instructor or department for details.	
2901	Susan Winter	Seats (Total: 5)
	Contact instructor or department for details.	
3001	Richard Marciano	Seats (Total: 5)
	Contact instructor or department for details.	
3101	Yla Tausczik	Seats (Total: 5)
	Contact instructor or department for details.	
3201	Andrea Wiggins	Seats (Total: 5)
	Contact instructor or department for details.	
4501	Tamara Clegg	Seats (Total: 5)
	Contact instructor or department for details.	

INST810

Individual Research Experience

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: INST810 or LBSC810. Formerly: LBSC810.

Pre-candidacy individual research experience directed by a faculty member.

0101	Jennifer Preece Contact instructor or department for details.	Seats (Total: 5)
0201	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0301	Brian Butler Contact instructor or department for details.	Seats (Total: 5)
0401	Michael Kurtz Contact instructor or department for details.	Seats (Total: 5)
0501	Allison Druin Contact instructor or department for details.	Seats (Total: 5)
0601	Vedat Diker Contact instructor or department for details.	Seats (Total: 5)
0701	Kenneth Heger Contact instructor or department for details.	Seats (Total: 5)
0801	Douglas Oard Contact instructor or department for details.	Seats (Total: 5)
0901	Ricardo Punzalan Contact instructor or department for details.	Seats (Total: 5)
1101	Paul Jaeger Contact instructor or department for details.	Seats (Total: 5)
1201	June Ahn Contact instructor or department for details.	Seats (Total: 5)
1301	Jennifer Golbeck Contact instructor or department for details.	Seats (Total: 5)
1401	Kari Kraus Contact instructor or department for details.	Seats (Total: 5)
1501	Beth St Jean Contact instructor or department for details.	Seats (Total: 5)

1601	Vanessa Frias-Martinez	Seats (Total: 5)
	Contact instructor or department for details.	
1701	John Bertot	Seats (Total: 5)
	Contact instructor or department for details.	
1801	Ping Wang	Seats (Total: 5)
	Contact instructor or department for details.	
1901	Kathy Weaver	Seats (Total: 5)
	Contact instructor or department for details.	
2001	Katy Lawley	Seats (Total: 5)
	Contact instructor or department for details.	
2101	Katie Shilton	Seats (Total: 5)
	Contact instructor or department for details.	
2201	Leah Findlater	Seats (Total: 5)
	Contact instructor or department for details.	
2301	Marshini Chetty	Seats (Total: 5)
	Contact instructor or department for details.	
2401	Jessica Vitak	Seats (Total: 4)
	Contact instructor or department for details.	
2501	Taverekere Srikantaiah	Seats (Total: 5)
	Contact instructor or department for details.	
2601	Niklas Elmqvist	Seats (Total: 5)
	Contact instructor or department for details.	
2701	Mega Subramaniam	Seats (Total: 4)
	Contact instructor or department for details.	
2801	Diane Barlow	Seats (Total: 5)
	Contact instructor or department for details.	
2901	Susan Winter	Seats (Total: 5)
	Contact instructor or department for details.	
3001	Richard Marciano	Seats (Total: 5)
	Contact instructor or department for details.	

3101	Yla Tausczik	Seats (Total: 5)
Contact instructor or department for details.		
3201	Andrea Wiggins	Seats (Total: 5)
Contact instructor or department for details.		
4501	Tamara Clegg	Seats (Total: 5)
Contact instructor or department for details.		

INST888 Doctoral Seminar

Credits: 3 Grading Method: Regular,
Audit

Advanced seminar on selected topics in information studies.

0101	Richard Marciano	Seats (Total: 25)
	M 6:00pm - 8:45pm	HBK 4115

INST898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

INST899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

ISRL
Israel Studies
Spring 2016

ISRL249C Selected Topics in Israel Studies; Contemporary Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249D Selected Topics in Israel Studies; Women in Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL249E Selected Topics in Israel Studies; Writing Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.

Contact department for information to register for this course.

ISRL329D Special Topics in Israel Studies; Understanding the Israeli-Palestinian Conflict through Opposing Histories

Credits: 3 Grading Method: Regular, General Education: DSHU
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Not open to students who have taken ISRL289I. Credit will be granted for HONR338A or ISRL329D. Israelis and Palestinians have been fighting over the Land of Palestine/Israel for over a century, but both sides date their relationship to the Land back many centuries, even millenia. We will look at the history but especially the "narratives" that the two sides employ to explain and justify, both to themselves and others, their claims to the land, and how these narratives have both molded the shape of the conflict and been molded by it, and changed over time. This is not solely a history course, though it will cover the relevant history. It will focus on the importance of narratives to the continuation of the conflict, as well as elements relating to identity, religion, archaeology, morality, and human rights. No previous knowledge is expected, but those with such knowledge will find it useful.

0101	Paul Scham	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	SQH 1123

ISRL329K Special Topics in Israel Studies; Jewry of Muscle: Zionism and Jewish Masculinity

Credits: 3 Grading Method: Regular, General Education: DSHU
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as JWST319K. Credit granted for JWST319K or ISRL329K. Part of the Zionist cultural project involved creating a new Jewish masculinity that would replace the diasporic sissy Jew with a strong, healthy new Jewry of Muscle. Using literary and filmic sources, we will analyze how these Zionist and Israeli cultural productions served to build (and sometimes undermine) this new model of Jewish masculinity.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

ISRL342

History of Modern Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSHS

Also offered as: HIST376. Credit only granted for: HIST376, ISRL342, or JWST342. Formerly: JWST342.

History of modern Israel since the beginning of the Zionist settlement in 1882. Attention to different interpretations and narratives of Israel's history, including the historical and ideological roots of Zionism, the establishment of the State of Israel, ideological forces, wars, and the triumphs and crises of democracy.

Additional Note: Also offered as HIST376. Credit granted for ISRL342 or HIST376.

0101	Moran Stern, Yoram Peri	Seats (Total: 60)
	MW 3:30pm - 4:45pm	SKN 0104

ISRL349A

Investigating Topics in Israel Studies; The Psychology of Conflict Resolution

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349B

Investigating Topics in Israel Studies; Arab-Israeli Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Contact department for information to register for this course.

ISRL349M

Investigating Topics in Israel Studies; Israel: History, Sociology, and Art

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as SOCY398I. Credit granted for ISRL349M or SOCY398I. Israel's cultural history through the lenses of sociology, history, and art. In examining the cultural diversity and multiple identities that characterize Israeli society, the course will provide keys to understand the place of immigration waves that shaped its demographic, social, and political structure.

0101	Pnina Peri	Seats (Total: 35)
	MW 2:00pm - 3:15pm	SQH 1121

ISRL349Q Investigating Topics in Israel Studies; Self and Other in Israeli Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Also offered as CMLT398B, HEBR498Q and JWST319Q. Credit granted for ISRL349Q, CMLT398B, HEBR498Q, or JWST319Q. People representing many different faiths, ethnicities, languages, and cultures populate Modern Israel. Nevertheless, Jews of European origins have dominated the state's political and cultural climate. Through an exploration of literature and film, we will explore the ways in which the sense of the "self" is constructed and the ways in which the "other" is imagined in Israeli culture. "Others" include Palestinians, Sepharadim, Mizrahim, non-Zionists, Women, Eastern Europeans who do not relinquish their ties to the past, as well as individuals who resist the collective ideologies of a modern nation in the making.

0101	Chen Edrei	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0125

ISRL349W Investigating Topics in Israel Studies; Gender and Migration: Global Trends and the Israeli Case

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.

Increased migration, particularly among women, is one of the most discussed aspects of present-day globalization. Yet the discourse about migration both in the media and within academia is still often gender-blind. Through historical and sociological literature this course will critically survey the impact of gender on migration and its relations to ethnicity and race.

0101	Pnina Peri	Seats (Total: 35)
	MW 3:30pm - 4:45pm	SQH 1121

ISRL369C Special Topics in Study Abroad; Israeli Society in Israeli Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ISRL369I Special Topics in Study Abroad; Socio-Economic, Political, Religious, and Ethnic Conflicts in Israel, and the Search For Common Ground

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ISRL448N Seminar in Israel Studies; BATTLE OF THE NARRATIVES

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.

Also offered as HIST428W. Credit offered for HIST428W or ISRL448N, The history of the Israeli-Palestinian conflict and how it is influenced by the narratives of each side. Part of the course will be interactive through distance learning technology with a parallel course at Tel Aviv University taught by one of their professors.

0101	Daniel Zisenwine	Seats (Total: 15)
	MW 9:00am - 10:50am	JMZ 1103

ISRL449N Advanced Topics in Israel Studies; Puppet Cinema: When Film and Puppetry Meet on Stage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in the study of Zionism and contemporary Israel from the 1880s to the present at the advanced level. Individual sections may address history, politics, or culture. Some Sections may have language or course prerequisites.

0101	Zvi Sahar	Seats (Total: 6)
	MW 3:00pm - 4:50pm	PAC 2740

ITAL Italian

Spring 2016

Students with no experience in the language are invited to register for ITAL103.

ITAL103 Intensive Elementary Italian

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Italian. Credit only granted for: ITAL103 or ITAL121.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Margherita Morando	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 1124
	W 11:00am - 11:50am	JMZ 3205
BL01	Federica Deigan	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 2123
	Class time/details on ELMs	ONLINE
BL02	Federica Deigan	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2123
	Class time/details on ELMs	ONLINE

ITAL121 Accelerated Italian I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Credit only granted for: ITAL103 or ITAL121.

An intensive beginning course in Italian language skills: guided practice in reading, writing, understanding and conversation, to enable the student to move more quickly to advanced courses. Restricted to students already having a good background in at least one other foreign language. When taken with ITAL122, may be used to satisfy language requirement.

Contact department for information to register for this course.

ITAL122 Accelerated Italian II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

*Prerequisite: ITAL121; or must have appropriate Foreign Language Placement Test (FLPT) score.
Credit only granted for: ITAL203 or ITAL122.*

Continuation of ITAL121. Completion of accelerated cycle. May be used to satisfy ARHU Global Engagement requirement.

Also offered as ITAL122H. Credit granted for ITAL122 or ITAL122H.

Contact department for information to register for this course.

ITAL122H Accelerated Italian II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

*Prerequisite: ITAL121; or must have appropriate Foreign Language Placement Test (FLPT) score.
Credit only granted for: ITAL203 or ITAL122.*

Continuation of ITAL121. Completion of accelerated cycle. May be used to satisfy ARHU Global Engagement requirement.

For general honors students only. Also offered as ITAL122. Credit granted to ITAL122 or ITAL122H.

Contact department for information to register for this course.

ITAL169B Special Topics in Study Abroad I; Intensive Elementary Italian

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169C Special Topics in Study Abroad I; Italian Conversation

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169E Special Topics in Study Abroad I; Elementary Italian I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169F Special Topics in Study Abroad I; The Florence Experience I: Beginning Italian 1

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL169R Special Topics in Study Abroad I; Introduction to Italian Language and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL203 Intensive Intermediate Italian

Credits: 4 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: ITAL103; or must have appropriate Foreign Language Placement Test (FLPT) score.

Restriction: Must not have completed ITAL122; and must not be a fluent/native speaker of Italian.

Credit only granted for: ITAL203 or ITAL122.

Covers speaking, reading, writing, listening, and culture of Italian-speaking world.

0101	Margherita Morando	Seats (Total: 20)
	TuTh 9:30am - 10:45am	JMZ 1124
	W 10:00am - 10:50am	JMZ 1122
0201	Margherita Morando	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 1124
	W 12:00pm - 12:50pm	JMZ 3205
BL01	Federica Deigan	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2125
	Class time/details on ELMs	ONLINE

ITAL204 Review Grammar and Composition

Credits: 3 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: ITAL203 or ITAL122; or must have appropriate Foreign Language Placement Test (FLPT) score.

An intensive review of major aspects of contemporary grammatical usage; training in comprehension; an introduction to guided composition.

Contact department for information to register for this course.

ITAL207**Reading and Writing in Italian**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSHU

Prerequisite: ITAL204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Italian.

Culture-based, process approach to reading and writing in Italian; selected grammatical topics.

0101	Stefania Amodeo	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 3203

ITAL211**Intermediate Conversation**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

Prerequisite: ITAL203; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Italian.

Practice in spoken Italian based on reading and listening exercises in variety of genres. Written assignments and exams.

0101	Stefania Amodeo	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 2122

ITAL269D**Special Topics in Study Abroad II; Advanced Italian**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269I**Special Topics in Study Abroad II; Intensive Intermediate Italian I**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269M Special Topics in Study Abroad II; A City with a View: Modern Italy through Florence

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL269R Special Topics in Study Abroad II; Elementary Italian I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL301 Italian Composition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ITAL207; or students who have taken courses with comparable content may contact the department.

Techniques of composition; grammatical analysis; various genres; vocabulary.

Contact department for information to register for this course.

ITAL311 Advanced Oral Expression: Current Events

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ITAL211; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Oral expression; development of idiomatic forms and vocabulary to level of the Italian press.

Contact department for information to register for this course.

ITAL361 Survey of Italian Society and Culture: From Fascism to the Seventies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ITAL207.

Development of Italian society and culture from Fascism to the 1970s. Literature, cinema, economy, popular culture, and daily life. Taught in Italian.

0101	Stefania Amodeo	Seats (Total: 20)
	Tu 12:30pm - 1:45pm	JMZ 3118
	Th 12:30pm - 1:45pm	JMZ 3120

ITAL362 Survey of Italian Society and Culture: From the 1980s to the Present Day

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ITAL207; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Development of Italian society and culture from the 1980s to the present. Literature, cinema, economy, popular culture, daily life. Taught in Italian.

Contact department for information to register for this course.

ITAL369W Special Topics in Study Abroad III; Composition and Style

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

ITAL386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

ITAL399 Directed Study in Italian

(Perm req) Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

Contact department for information to register for this course.

ITAL399T Directed Study in Italian; Tutoring

(Perm req) Credits: 1 Grading Method: Regular,
Pass-Fail

Intended for undergraduates who wish to work on an individual basis with a professor of their choice.

0101	Margherita Morando	Seats (Total: 5)
	TBA	JMZ 3118

ITAL401 Advanced Composition and Style

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: ITAL301; or students who have taken courses with comparable content may contact the department.

Advanced writing practice in range of genres.

0101	Margherita Morando	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 3120

ITAL421 The Italian Renaissance

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ITAL421 or ITAL422.

A study of major trends of thought in Renaissance literature, art, and science. Taught in English.

Contact department for information to register for this course.

ITAL431 Italian Civilization in Translation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ITAL431 or ITAL432.

Political, social, intellectual, literary and artistic forces shaping contemporary Italy from the late Middle Ages to the present. Taught in English.

Contact department for information to register for this course.

ITAL475 The Italian Opera Libretto in English

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed one course in literature. Credit only granted for: ITAL475 or ITAL476.

History and analysis of Italian opera librettos from Monteverdi through Mozart to Verdi and Puccini. Taught in English.

Also offered as MUSC448L. Credit will be granted for ITAL475 or MUSC448 L.

Contact department for information to register for this course.

ITAL478J Colloquium in Italian; Terrorism and Political Violence in Italy

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

*Colloquium section taught in Italian to accompany 400-level Italian courses taught in English.
Discussion, presentations, readings.*

This colloquium correlates with ITAL 499J.

0101	Mauro Resmini	Seats (Total: 10)
	W 12:00pm - 12:50pm	JMZ 1123

ITAL497 Senior Project

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: 4 courses from ITAL400-499 course range; or permission of ARHU-School of Languages,
Literatures, and Cultures department.*

*Individual independent study of an aspect of Italian literature, cultur or society selected according to
student interest and need in consultation with a member of the Italian program.*

Contact department for information to register for this course.

ITAL499 Special Topics in Italian Studies

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

ITAL499J Special Topics in Italian Studies; Terrorism and Political Violence in Italy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course correlates with ITAL 478J. Taught in English.

0101	Mauro Resmini	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 0205

JAPN102**Elementary Japanese II**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN101; or appropriate Foreign Language Placement Test (FLPT) score.

Continued introduction to the basic spoken patterns of contemporary Japanese.

0101	Etsuko Yamakita	Seats (Total: 15)
	MWF 9:00am - 9:50am	JMZ 0205
	TuTh 9:30am - 10:45am	JMZ 2207
0201	Etsuko Yamakita, Lindsay Yotsukura	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 0205
	TuTh 11:00am - 12:15pm	JMZ 2207
0301	Etsuko Yamakita, Lindsay Yotsukura	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 0205
	TuTh 11:00am - 12:15pm	JMZ 2207

JAPN202**Intermediate Japanese II**

Credits: 6 Grading Method: Regular CORE: HO

Prerequisite: Minimum grade of C- in JAPN201; or appropriate Foreign Language Placement Test (FLPT) score.

Contemporary spoken and written Japanese.

0101	Makiko Inoue, Kumiko Akikawa	Seats (Total: 15)
	MWF 9:00am - 10:50am	JMZ 2125
0201	Makiko Inoue, Kumiko Akikawa	Seats (Total: 15)
	MWF 11:00am - 12:50pm	JMZ 2125

JAPN302**Advanced Japanese II**

Credits: 6 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN301; or permission of instructor.

Continued readings in varied modern texts and advanced conversation and oral comprehension.

0101	Makiko Inoue	Seats (Total: 15)
	MW 1:00pm - 2:50pm	JMZ 1226
	F 1:00pm - 2:50pm	JMZ 3203

JAPN335 Troubling Gender and Sex in Japan

Credits: 3 Grading Method: Regular General Education: DVUP

There are a number of overly stereotypical gendered and sexualized images of Japanese in the United States. Consider, for instance, the continued dominance of the icons of Japan, the Samurai and Geisha. An examination of the wide variety of representations of femininity and masculinity and gender and sexual identities in Japan, however, offers us a fruitful opportunity to expand and challenge even our most inclusive ideas of gender and sexuality. The title of this course derives from a feminist, theoretical work by Judith Butler, Gender Trouble. Putting a critical lens to fiction, film, drama, art, and legal documents, we will trouble (complicate and deconstruct) received notions of gender and sexuality in a number of fundamental ways.

Taught in English.

0101	Michele Mason	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMZ 3205

JAPN386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

JAPN407 The Art of Translation

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in JAPN401; or students who have taken courses with comparable content may contact the department.

Theory and practice of translation. Variety of genres. Japanese to English.

0101	Michele Mason	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	JMZ 2125

JAPN498W Special Topics in Japanese Studies; Introduction to Global Digital Humanities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in Japanese studies. Taught in English.

This course is not eligible for major or minor credit. Also offered as GERM489W, HEBR498W, FREN499W, and SLLC499W. Credit granted for FREN499W, GERM489W, HEBR498W, JAPN498W, or SLLC499W. Opens a "global" window on the field of Digital Humanities (DH) and its computational tools. We will both constructively problematize the Euro-American centrism of the dominant DH framework and work through some of the technical challenges of developing a more global DH. Students interested in theoretical debates within DH, practical applications of DH methods to various humanities disciplines (literature, history, political science, etc.), or the purely technical dimensions of DH work (coding, statistics, etc.) are all equally welcome.

0101	Matthew Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	Location: TBA

JAPN499

Directed Study in Japanese

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Contact department for information to register for this course.

JOUR

Journalism

Spring 2016

JOUR106

Introduction to Studio Production

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Additional information: Course does not count toward a Journalism degree.

Students will participate in various production roles to assist in the production of UMTV shows.

0101	Sunny Hess	Seats (Total: 14)
	Meets January 25, 2016 - March 11, 2016	
	M 10:00am - 11:40am	TWS 0117
0201	Sunny Hess	Seats (Total: 14)
	Meets March 21, 2016 - May 10, 2016	
	M 10:00am - 11:40am	TWS 0117

JOUR130

Self-Presentation in the Age of YouTube

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

0101	Renee Poussaint	Seats (Total: 22)
	TuTh 4:00pm - 5:15pm	KNI 1103

JOUR150

Introduction to Mass Communication

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSSP

Restriction: Not open to students who have completed JOUR100 prior to Fall 1999. Additional information: Not applicable toward journalism major.

Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.

0101	Edward Alwood	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	KNI 1208
0201	Saranaz Abdollahzadeh Barforoush	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	KNI 1105

JOUR175

Media Literacy

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE, D General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

0101	Carole Lee, Sarah Oates	Seats (Total: 200)
	TuTh 2:00pm - 3:15pm	BRB 1101

JOUR181**Grammar for Journalists**

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: ENGL181, ENGL281, or JOUR181.

The basic grammatical structures of standard American written English and its conventions of punctuation, diction and usage in journalistic writing.

0101	Linda Coleman	Seats (Total: 144)
	W 2:00pm - 2:50pm	JMZ 0220
0201	Linda Coleman	Seats (Total: 70)
	W 12:30pm - 1:20pm	KNI 1208

JOUR199**Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

Prerequisite: permission of department. Repeatable to 6 credits if content differs. Students must meet with the Internship Director in KNI 1100 to receive permission to register. No requests to register after the Schedule Adjustment Period will be honored.

0101	Adrianne Flynn	Seats (Total: 35)
	Contact instructor or department for details.	

JOUR200**Journalism History, Roles and Structures**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Introduction to the study of journalism from the standpoint of media history and sociology.

0101	Ira Chinoy	Seats (Total: 30)
	MW 12:30pm - 1:45pm	KNI 1103
0201	Pallavi Guha	Seats (Total: 33)
	TuTh 9:30am - 10:45am	KNI 1208
0301	Carl Stepp	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KNI 1103

JOUR201**News Writing and Reporting I**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.

Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.

For students intending to be journalism majors.

0101	Marisa Osorio MW 2:00pm - 3:50pm	Seats (Total: 18) KNI 2103
0201	James Baxter, Christine Harvey TuTh 8:00am - 9:50am	Seats (Total: 18) KNI 2105
0301	Tamara Cooke Henry MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 1101
0401	Merrilee Cox MW 12:00pm - 1:50pm	Seats (Total: 18) KNI 2103
0501	Halimah Abdullah TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 2107
0601	Matthew Brown TuTh 7:00pm - 8:50pm	Seats (Total: 18) KNI 1101
0701	Tamara Cooke Henry MW 4:00pm - 5:50pm	Seats (Total: 18) KNI 2107

JOUR202**News Editing**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Copy editing, graphic principles and processes, new media technology.

0101	Sharon O'Malley TuTh 10:00am - 11:50am	Seats (Total: 18) KNI 2105
0201	Sharon O'Malley TuTh 4:00pm - 5:50pm	Seats (Total: 18) KNI 2103
0301	Sharon O'Malley TuTh 2:00pm - 3:50pm	Seats (Total: 18) KNI 2103

JOUR203

Introduction to Multimedia Skills

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR203 or JOUR328G. Formerly: JOUR328G.

Examining the basics of producing and editing digital photos, video, an audio. Topics include: framing, lighting, and other aspects of composition; sequencing, using wide, medium, and tight shots; and ethical considerations when collecting sound and visuals.

0101	Timothy Jacobsen W 4:15pm - 7:00pm	Seats (Total: 18) KNI 1101
0201	Jonathan Sham Th 12:00pm - 2:45pm	Seats (Total: 18) KNI 1101
0301	Timothy Jacobsen F 12:00pm - 2:45pm	Seats (Total: 18) KNI 2107

JOUR262

News Videography

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR203. Also offered as: JOUR603. Credit only granted for: JOUR262 or JOUR603.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Charles MacDonald TuTh 7:00pm - 8:50pm	Seats (Total: 10) TWS 0222A
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0201	Luke Rollins MW 7:00pm - 8:50pm	Seats (Total: 10) TWS 0222A
0301	Bethany Swain MW 10:00am - 11:50am	Seats (Total: 9) TWS 0222B
0401	Kevin Johnson TuTh 7:15pm - 9:05pm	Seats (Total: 10) TWS 0222B
0501	Sean Filburn TuTh 10:00am - 11:50am	Seats (Total: 10) TWS 0222A
0601	Bethany Swain MW 12:00pm - 1:50pm	Seats (Total: 4) TWS 0222B

JOUR289E Media Law and Ethics in the Digital Age

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, SCIS
0101	Sandra Banisky TuTh 12:30pm - 1:45pm	Seats (Total: 70) KNI 1208
<i>This course is intended for non-journalism majors. Explore the First Amendment, libel, privacy, FOIA and copyright as they evolved in the digital news age of bloggers, tweeters, and citizen journalists. This course will cover fundamental legal and ethical concepts as well as practical application.</i>		

JOUR289F Beyond Facebook: How Social Media are Transforming Society, Culture, Business and Politics

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: IE	General Education: DSHU, SCIS
<p>Examining the rise of social media and their impact on culture, business, government, politics, journalism and society, this course provides students with a broad contextual understanding of the multidisciplinary impacts of social media such as Twitter, Facebook and similar Internet-based services.</p>			
0101	Leslie Walker MW 11:00am - 12:15pm	Seats (Total: 70) KNI 1208	

JOUR300 Journalism Ethics

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Examination of ethical problems in news writing and reporting.

0101	Merrilee Cox MW 2:00pm - 3:15pm	Seats (Total: 25) KNI 3202
0201	Christopher Hanson Tu 4:15pm - 7:00pm	Seats (Total: 25) KNI 1105
0301	Kevin Klose TuTh 2:00pm - 3:15pm	Seats (Total: 25) KNI 3202
0401	Adrianne Flynn MW 9:30am - 10:45am	Seats (Total: 25) KNI 1105

JOUR320 News Writing and Reporting II: Multiplatform

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.

Principles and practices of news reporting; covering news beats and other news sources, including researching news stories for accuracy, comprehensiveness and interpretation. Due to rigorous publication requirement, plan your schedule accordingly.

Due to rigorous publication requirement, students should time manage their semester accordingly.

0101	Thomas Linthicum MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 2107
0201	David Lightman MW 8:00am - 9:50am	Seats (Total: 18) KNI 2105
0301	Robert Doherty MW 7:00pm - 8:50pm	Seats (Total: 18) KNI 3210

JOUR324 Commentary and Editorial Writing

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360. Formerly: JOUR326.

Journalistic interpretation and analysis; commentary and editorial writing.

0101	William Beecher	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	KNI 1206

JOUR325**Capital News Service Bureau**

(Perm req)

Credits: 6

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism.

Advanced journalism training. Students report as part of College's Capital News Service program.

Washington, DC students should enroll in section 0101. Annapolis students should enroll in section 0201. College Park students should enroll in section 0301.

0101	James Carroll	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Karen Denny	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Sean Mussenden	Seats (Total: 10)
	Contact instructor or department for details.	

JOUR328A**Special Topics in News Writing and Reporting; Web Analytics for Journalists**

(Perm req)

Credits: 1

Grading Method: Regular

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR352 and permission of department. Students will learn how to analyze and measure digital audiences using real-time analytics tools. We'll explore which metrics matter (page views, unique visitors, time on site, referrals, etc.) and how to define success.

0101	Mark Smith	Seats (Total: 18)
	W 6:00pm - 6:50pm	KNI 2105

JOUR328B**Special Topics in News Writing and Reporting; Sports Reporting and Writing**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite JOUR320. Department permission required. This course will give students full and wide-ranging instruction in all aspects of sports reporting and writing, from the history of the craft to its mechanics, including how to prepare to report and write sports stories, incorporating photography, audio, video and interactive mechanics and the laying out and editing of them. We will also discuss ethics, objectivity, fairness and the future of sports journalism.

0101	Kevin Blackistone	Seats (Total: 15)
	MW 10:00am - 11:15am	KNI 1206

JOUR328D Special Topics in News Writing and Reporting; Building Journalism's Next Disruption

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320, JOUR352 and permission of Rafael Lorente (rlorente@umd.edu). Utilizing product development and design-thinking principles, cross disciplinary teams will build working prototypes in response to a series of challenges, addressing problems facing the news and media industry today. Students will be engaged in an ongoing conversation about the biggest issues facing journalism and creating products and solutions that will inform an industry. Course meets at The Washington Post.

0101	Timothy Wong	Seats (Total: 8)
	F 10:00am - 12:45pm	Location: TBA

JOUR328F Special Topics in News Writing and Reporting; National Security and Press Freedom Reporting

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320; Credit granted for: JOUR328F, JOUR328N or JOUR462. Students will learn to research and report on select U.S. agencies, on freedom problems overseas.

0101	Dana Priest	Seats (Total: 8)
	M 10:00am - 12:45pm	KNI 3200

JOUR328I Special Topics in News Writing and Reporting; Advanced Public Affairs Reporting/Investigative Reporting

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320; and permission of instructor. Students in this course collaborate on reporting and producing a multimedia investigative project for publication by professional news organizations. Topics have included human trafficking, the working poor, immigration, rising seas and state lotteries.

0101	Deborah Nelson	Seats (Total: 11)
	M 1:00pm - 3:45pm	KNI 2107

JOUR328R Special Topics in News Writing and Reporting; Business Reporting

(Perm req)

Credits: 3 Grading Method: Regular

Advanced training and practice in writing and reporting news.

Prerequisite: JOUR320 and permission of the instructor (robwells@umd.edu). This course will take an in-depth look at the economic and business climate in West Baltimore, home of the April 2015 riots. Students will use basic business and financial reporting techniques to examine larger social questions, such as the causes of poverty in the neighborhood and challenges to private sector development.

0101	Rob Wells	Seats (Total: 8)
	M 12:00pm - 2:45pm	KNI 1101

JOUR350 Multimedia Presentation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in JOUR202; or minimum grade of C- in JOUR262. Credit only granted for: JOUR350 or JOUR373.

An examination of the relationship of verbal and visual components of news content and the presentation of information in print and online publications by combining typography, graphics, images and interactivity using current digital technologies.

0101	George Lanum	Seats (Total: 18)
	TuTh 12:00pm - 1:50pm	KNI 2103

JOUR352 Intermediate Multimedia Journalism

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR203. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Also offered as: JOUR652. Credit only granted for: JOUR352 or JOUR652.

Conceptualize, wireframe, design and build responsive Web pages using html, style sheets and other coding tools; work with open source interactive tools, javascript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.

0101	Mark Smith W 7:00pm - 9:45pm	Seats (Total: 18) KNI 2105
0201	Ljiljana Ciric Hoffmann M 7:00pm - 9:45pm	Seats (Total: 18) KNI 2105
0301	Leslie Walker W 1:00pm - 3:45pm	Seats (Total: 18) KNI 1101
0401	Alexander Pyles W 7:00pm - 9:45pm	Seats (Total: 18) KNI 2103
0501	Gagan Nirula Th 7:00pm - 9:45pm	Seats (Total: 18) KNI 2105

JOUR353

(Perm req)

News Bureau: Multimedia Reporting

Credits: 3

Grading Method: Regular,
Audit

General Education: DSSP

Prerequisite: JOUR352; and permission of JOUR-Philip Merrill College of Journalism; and (JOUR320 or JOUR360).

Advanced reporting and writing in an online environment focusing on multimedia and non-traditional storytelling.

Contact instructor to obtain permission.

0101	Sean Mussenden Contact instructor or department for details. <i>This section is for College Park Students.</i>	Seats (Total: 10)
0201	Karen Denny Contact instructor or department for details. <i>This section is for Annapolis students.</i>	Seats (Total: 8)
0301	James Carroll Contact instructor or department for details. <i>This section is for Washington DC students.</i>	Seats (Total: 8)

JOUR354 Interactive Multimedia Storytelling

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: JOUR352. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.**Advanced development of multimedia journalism, with emphasis on interactivity and application of new technologies, drawing on multiple sources, technologies and techniques to create interactive narratives.*

0101	Corey Kliewer	Seats (Total: 14)
	W 7:00pm - 9:45pm	TWS 0222B

JOUR360 News Writing and Reporting II: Broadcast

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: Minimum grade of C- in JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.**Writing and reporting for broadcast media: production of news stories.*

0101	Mark Feldstein	Seats (Total: 15)
	MW 10:00am - 11:15am	KNI 2105
0201	Cassandra Clayton	Seats (Total: 18)
	MW 11:30am - 12:45pm	KNI 2105
0301	Cassandra Clayton	Seats (Total: 18)
	MW 1:30pm - 2:45pm	KNI 2105

JOUR361 Television Reporting and Production

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: JOUR262 and JOUR360.**Writing and editing for the broadcast media. Interpretive and documentary news stories.**Students will spend several hours per week on field assignments, in addition to scheduled class sessions.*

0301	Scott Rensberger	Seats (Total: 10)
	TuTh 10:00am - 11:50am	KNI 1101

0401	Joshua Davidsburg	Seats (Total: 10)
	MW 10:00am - 11:50am	TWS 0222A

JOUR362 Broadcast News Producing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR262 and JOUR360; and must have completed or be concurrently enrolled in JOUR361.

Producing TV news.

0101	Cindy Wright	Seats (Total: 2)
	Tu 7:15pm - 9:15pm	TWS 0117
	W 2:00pm - 7:00pm	TWS 0117 Lab
0102	Cindy Wright	Seats (Total: 2)
	Tu 7:15pm - 9:15pm	TWS 0117
	Tu 2:00pm - 7:00pm	TWS 0117 Lab
0103	Cindy Wright	Seats (Total: 1)
	Tu 7:15pm - 9:15pm	TWS 0117
	Th 2:00pm - 7:00pm	TWS 0117 Lab

JOUR363 Long Form Broadcast Journalism

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Also offered as: JOUR663. Credit only granted for: JOUR363, JOUR486 or JOUR663. Formerly: JOUR486.

Production of long form broadcast news reporting, reality videos or documentaries.

0101	Mark Feldstein	Seats (Total: 4)
	M 3:00pm - 5:45pm	KNI 1101

JOUR364 Radio Broadcasting

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR360; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR364 or JOUR368R. Formerly: JOUR368R.

Students receive hands-on training in applying what they have learned about news reporting to the preparation of stories for, and the production of, a weekly radio program.

0101	Jamie Forzato	Seats (Total: 10)
	Th 4:00pm - 6:45pm	KNI 2107

JOUR367**Broadcast News Bureau**

(Perm req)

Credits: 6 Grading Method: Regular, General Education: DSSP
Audit

Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

0101	Susan Katcef	Seats (Total: 10)
	Contact instructor or department for details.	

JOUR368B**Topics in Broadcast and Electronic Media; Broadcast Sports Reporting**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262, JOUR360 and JOUR361 or permission of department.

0101	David Owens	Seats (Total: 10)
	Tu 10:00am - 12:45pm	KNI 2109

JOUR368K**Topics in Broadcast and Electronic Media; Video Innovation**

(Perm req)

Credits: 3 Grading Method: Regular

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of instructor (jdavidsb@umd.edu). Students will explore the intersection between social media, video and a live broadcast by creating new and innovative ways to "broadcast" news to an audience. The class will encourage an entrepreneurial spirit and give students the opportunity to produce a show from scratch, with content aired on UMTV and online. In addition to creating television, students will support the broadcast arm of Capital News Service by managing volunteers, filling in on the studio staff and producing special projects and graphics when necessary.

0101	Joshua Davidsburg	Seats (Total: 8)
	M 1:00pm - 3:45pm	TWS 0117

JOUR368M Topics in Broadcast and Electronic Media; Multimedia Mobile Journalism

(Perm req)

Credits: 3 Grading Method: Regular

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR203; JOUR320 or JOUR360. In many ways, multimedia content is collected, presented and consumed differently than content presented on web sites. This class focuses exclusively on these processes by exploring the best apps and the best practices for today's mobile journalist

0101	Ronald Yaros	Seats (Total: 10)
	MW 10:45am - 12:00pm	KNI 3202

JOUR368T Topics in Broadcast and Electronic Media; On-Camera Performance

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262 and JOUR360. This course will help students gain the knowledge, polish and confidence to perform professionally on camera, as they develop their broadcast skills in anchoring, doing stand-ups, and interviewing. They will also learn how to use their voices as tools of journalistic expression how to track with authority and emotion.

0101	Cassandra Clayton	Seats (Total: 6)
	M 3:00pm - 5:45pm	KNI 2105

JOUR368V Topics in Broadcast and Electronic Media; Advanced Video Storytelling

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR361 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi-platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Bethany Swain	Seats (Total: 9)
	M 2:45pm - 5:45pm	TWS 0222B

JOUR368Y Topics in Broadcast and Electronic Media; Sports Producing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced research, analysis and/or practice of selected topics in broadcast journalism.

Prerequisite: JOUR262 and JOUR360. This class will introduce students to the practices of producing sportscasts and sports shows for television: from strategies on how to construct a rundown to the timing of a show to the final execution of the show when the lights are on and the cameras are rolling. Students will learn how to choose a lead story , what works and does not work for TV, how to effectively "tease" stories and how to write specifically for the medium of television.

0101	Joseph Yasharoff	Seats (Total: 12)
	Th 7:00pm - 9:45pm	KNI 2103

JOUR370 Photojournalism

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR320 or JOUR360. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Formerly: JOUR 368P. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0101	Cheryl Meyer	Seats (Total: 12)
	Th 6:00pm - 7:15pm	KNI 1208
	Tu 6:00pm - 7:15pm	KNI 2103 Lab
0201	Cheryl Meyer	Seats (Total: 9)
	Th 6:00pm - 7:15pm	KNI 1208
	Tu 7:30pm - 8:45pm	KNI 2103 Lab

JOUR371 Feature Writing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: JOUR320.

Research and writing feature articles.

0101	Carl Stepp	Seats (Total: 18)
	TuTh 11:00am - 12:15pm	KNI 1206

JOUR389Y News Coverage of Special Topics; Reporting on Cybersecurity Journalism

(Perm req)

Credits: 3 Grading Method: Regular

Advanced training and practice in writing and reporting news in one specialized field of interest.

Prerequisite: JOUR203; JOUR320 or JOUR360. Students learn the essentials of cybersecurity as a journalistic beat. This course will balance an exploration of key issues in the field with practical guidance on how journalists approach the subject. Topics include: balancing security and civil liberties; the different roles and responsibilities of government and business; how to find sources in a very secretive field; ethics of coverage and the role of advocacy journalism; and more. Assignments will include reporting a story in text or audio.

0101	Bruce Auster	Seats (Total: 10)
	Tu 7:00pm - 9:45pm	KNI 3202

JOUR396 Supervised Internship

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: Must have earned a grade of C- or better in JOUR320 or JOUR360. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.

Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. Students may pick up an internship proposal form in KNI 1100, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted. This requirement would affect incoming freshmen from the fall 2012 class.

0101	Adrianne Flynn	Seats (Total: 75)
	Contact instructor or department for details.	

JOUR398 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular

Individual projects in journalism.

Contact department for information to register for this course.

JOUR399 Supervised Internship; Supervised Internship**(Perm req)**

Credits: 1 Grading Method: Regular

Supervised news internship experience; relation of academic training to professional experience.

Prerequisite: Grade of C or better in JOUR320 or JOUR360. Credit will be granted for only one of the following: JOUR326, JOUR366, JOUR396 or JOUR399. Supervised news internship experience; relation of academic training to professional experience. Students must pick up an internship agreement form in KNI 1100, have the internship supervisor fill it out, and meet with the Internship Director to receive permission to register. No requests to register after the Schedule Adjustment Period will be honored.

0101	Adrianne Flynn	Seats (Total: 75)
	Contact instructor or department for details.	

JOUR400 Media Law**(Perm req)**

Credits: 3 Grading Method: Regular

*Prerequisite: JOUR320, JOUR360, or JOUR501. Restriction: Junior standing or higher.**Legal rights and constraints of mass media; libel, privacy, copyright, monopoly, contempt, and other aspects of the law applied to mass communication. Previous study of the law not required.*

0101	Sandra Banisky	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	KNI 1208
0201	Deborah Nelson	Seats (Total: 40)
	MW 4:30pm - 5:45pm	KNI 1208

JOUR451 Advertising and SocietyCredits: 3 Grading Method: Regular,
Pass-Fail, Audit*Restriction: Junior standing or higher.**Advertising as an institution with manifest economic purposes and latent social effects. Influences of advertising on people, and related issues of ethics and social responsibility.*

0201	Kelly Stepno	Seats (Total: 15)
	Th 9:00am - 11:45am	KNI 3200

JOUR452 Women in the Media

Credits: 3 Grading Method: Regular, , D General Education: DVUP
Pass-Fail, Audit

Restriction: Junior standing or higher. Also offered as: WMST452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	KNI 1103

JOUR453 News Coverage of Racial Issues

Credits: 3 Grading Method: Regular, , D General Education: DVUP
Pass-Fail, Audit

Restriction: Junior standing or higher.

Analysis of news media coverage of issues relating to racial minorities in the United States, with special attention to Hispanics, Asian Americans, African Americans and Native Americans.

0101	Anne Rosen	Seats (Total: 25)
	TuTh 9:30am - 10:45am	KNI 3202

JOUR456 Literature in Journalism

Credits: 3 Grading Method: Regular, General Education: DSHU
Pass-Fail, Audit

Also offered as: JOUR673. Credit only granted for: JOUR456 or JOUR673.

From Truman Capote's In Cold Blood to Mark Bowden's Black Hawk Down, students will examine how literary works can help writers approach a subject in a different way than more traditional forms of journalism, including the advantages and limitations of the style.

0101	Christopher Hanson	Seats (Total: 18)
	MW 11:00am - 12:15pm	KNI 1103

JOUR458B Special Topics in Journalism; Sports Media Today

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concerns and current interest.

Students will discuss working with various organizations' communications/media relations staff, coaches and players; distributing news of the organizations; and creating/maintaining methods for disseminating that news to the public in an honest and forthright manner. Also, traditional, digital and social media elements will be explored. Restriction: Junior Standing or higher.

0101	Beth Mechum	Seats (Total: 33)
	Th 6:15pm - 9:00pm	KNI 3202

JOUR458L Special Topics in Journalism; Leadership: Making a Difference

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concerns and current interest.

This course introduces and analyzes the careers of leaders whose lives, words, and deeds have shaped today's world. Participants will engage in explorations of the challenges, values, and actions of individual leaders whose efforts have strengthened civil society and spirit in these times.

0101	Kevin Klose	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	KNI 3202

JOUR459B Special Topics in Journalism; European Mass Media

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459F Special Topics in Journalism; Media in War and Crisis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459G Special Topics in Journalism; Sports, Society, Culture and the Media

Credits: 3 Grading Method: Regular

Issues of special concern and current interest. Open to all students.

Restriction: Junior Standing or higher. This course will explore how sports, society, culture and the media critically relate to each other and the vast audiences of fans and interested parties. Students will study how journalists impact change, how sports shape culture, the history of sports media, how sports are seen throughout the world, college sports, children and sports, the business of sports and the future of sports in our society.

0101	George Solomon	Seats (Total: 15)
	M 12:00pm - 2:45pm	KNI 1206

JOUR459K Special Topics in Journalism; Global Media and International Journalism in the 21st Century

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459L Special Topics in Journalism; European Mass Media

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Contact department for information to register for this course.

JOUR459P Special Topics in Journalism; The Impact of 9/11 on Journalism and Civic Life

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

Explores the impact of the September 11th terrorist attacks on journalism and American civic life. Students will examine the growth of secret government institutions and technology, western government leaders' willingness/unwillingness to speak truthfully with citizens about threats, and the historic role journalism has played in shaping public debate on critical issues facing the nation.

0101	Dana Priest	Seats (Total: 12)
	M 4:00pm - 6:45pm	KNI 1206

JOUR472 Computer-Assisted Reporting

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: JOUR320 or JOUR360.

Computer and online data acquisition; analytical methods for writing and reporting news.

Students must contact Associate Dean Rafael Lorente (rlorente@umd.edu) for permission to register.

0101	Daniel Keating	Seats (Total: 6)
	TuTh 9:00am - 10:50am	KNI 2107

JOUR476 Researching Emerging Media in Journalism: Past, Present and Future

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

General Education: DSHS

Prerequisite: Must have completed a university statistics course. Credit only granted for: JOUR479W or JOUR476. Formerly: JOUR479W.

Students will examine developments billed as innovative in the current technology-laden news ecology - such as social networking, mobile reporting and computational journalism -- and the blurring of lines between hard news, informed opinion and advocacy. While questions about the future cannot be answered with any certainty, an exploration of the past allows us to see what happened when new technologies, information systems and practices appeared as possible tools for use by journalists and the communities they served. Students will learn to use tools for researching emerging media, including UMD library databases and open access databases. The course will include presentations by the instructor, discussions based on class readings, in-class exercises in small groups and student presentations. Each student will engage in a "Decades" research project.

0101	Ira Chinoy	Seats (Total: 18)
	MW 10:00am - 11:15am	KNI 1101

JOUR479K Special Topics in Data Gathering and Analysis; Building Systems for Reporting

(Perm req)

Credits: 3

Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. Students will learn how to craft a systemic approach to beat reporting by collecting and structuring data to add greater context to their stories. Students will gain experience using spreadsheets, databases, pattern matching and some computer programming, including web scraping and building simple sites for reporting.

0101	Derek Willis	Seats (Total: 18)
	W 3:00pm - 5:45pm	KNI 2105

JOUR479L Special Topics in Data Gathering and Analysis; Researching the State of the Local News Ecosystem

(Perm req)

Credits: 3

Grading Method: Regular

Special research topics for reporting and writing.

Must have completed a university statistics course. This course goes beyond the basic Google search and teaches students to track down key documents and information essential to good reporting. Relying on data, documents and in-person interviews, students will assess the availability and reach of local news outlets, as well as the demographics and interests of the intended audience, using Prince George's and Montgomery counties as their laboratories. Students will also assess how consumers obtain news and information in an increasingly fragmented media environment in the Washington, D.C. region.

0101	Miranda Spivack	Seats (Total: 18)
	Tu 5:00pm - 7:45pm	KNI 2105

JOUR4790 Special Topics in Data Gathering and Analysis; Understanding Audiences

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: Must have completed a university statistics course. As journalism evolves, it may be more important than ever to understand what were once simply called "audiences" - who they are, how they consume news, and what that engagement means for them and for society. Students will learn to think critically about news audiences and contemporary issues in audience research.

0101	Boya Xu	Seats (Total: 18)
	TuTh 12:30pm - 1:45pm	KNI 2105

JOUR479V Special Topics in Data Gathering and Analysis; Computational Journalism

(Perm req)

Credits: 3 Grading Method: Regular

Special research topics for reporting and writing.

Prerequisite: A university statistics course. Students must contact the instructor for permission to register (nad@umd.edu). This course explores the conceptualization and application of computational and data-driven approaches to journalism practice. Students will examine computational approaches to journalistic data gathering, curation, sensemaking, presentation, and dissemination and learn to apply methods such as text analysis, natural language generation, social computing, simulation, machine learning, and algorithmic accountability among others.

0101	Nicholas Diakopoulos	Seats (Total: 8)
	M 10:00am - 12:45pm	KNI 2107

JOUR480 Capstone Colloquium: The Business of News

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and junior standing or higher; and permission of JOUR-Philip Merrill College of Journalism.

Students will learn the basic news business concepts and examine how revenue and cost structures for media businesses are evolving in new directions. Topics include basic principles and concepts that drive media businesses in the Internet age, including revenue sources, dynamics of online advertising and subscriptions, mobile media strategies, user metrics, engaging audiences, and market dynamics.

0101	Leslie Walker	Seats (Total: 60)
Meets January 25, 2016 - March 14, 2016		
	M 6:00pm - 7:40pm	ASY 1213

JOUR532

Humphrey Seminar II

(Perm req)

Credits: 2

Grading Method: Regular

Additional information: Open to Merrill College Hubert H. Humphrey fellows.

Introduction to professional development, networking opportunities and practical experiences as a foreign journalist.

0101	Serap Rada	Seats (Total: 12)
	F 10:00am - 1:00pm	KNI 1109

JOUR603

News Videography

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: JOUR504; and permission of Journalism College required. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Also offered as: JOUR262. Credit only granted for: JOUR503 or JOUR603. Formerly: JOUR503.

Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.

0101	Bethany Swain	Seats (Total: 3)
	MW 12:00pm - 1:50pm	TWS 0222B

JOUR620

Public Affairs Reporting

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: JOUR501; or permission of JOUR-Philip Merrill College of Journalism.

Designed to add to and sharpen the skills learned in JOUR501. It is primarily an introduction to "beat" reporting that allows students to sample the most common new beats while reporting and writing on deadline. Students are required to develop and hone their multimedia skills by reporting in a variety of media.

0101	Carl Stepp	Seats (Total: 18)
	MW 10:00am - 11:50am	KNI 2103

JOUR623 Mobile Journalism

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Students must have basic computer skills. Credit only granted for: JOUR689M or JOUR623. Formerly: JOUR689M.

A review of several mobile applications and the "hands-on" skills needed to collect and share news in the field. First, students learn how to remotely post information to blogs and social networks. Students then learn and practice the latest location-based production techniques using web services on wireless laptops and mobile devices. Students use laptops (and their own "SmartPhone") to record, edit and upload audio and video.

PCJ1	Ronald Yaros	Seats (Total: 15)
	Sa 8:30am - 12:15pm	KNI 3202
	<i>Restricted to students in the Multimedia Journalism Certificate program</i>	

JOUR625 Advanced Capital News Service Bureau

(Perm req)

Credits: 6 Grading Method: Regular,
 Audit

Prerequisite: JOUR620; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR625 or JOUR729. Formerly: JOUR729.

Advanced journalism training. Students report as part of College's Capital News Service program.

Washington, D.C. Bureau students register for section 0101. Annapolis Bureau students register for section 0201.

0101	James Carroll	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Karen Denny	Seats (Total: 10)
	Contact instructor or department for details.	

0301	Sean Mussenden	Seats (Total: 10)
	Contact instructor or department for details.	

JOUR628B Specialized Topics in News Writing and Reporting; Sports Reporting and Writing

(Perm req)

Credits: 3 Grading Method: Regular,
 Audit

Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.

This course will give students full and wide-ranging instruction in all aspects of sports reporting and writing, from the history of the craft to its mechanics, including how to prepare to report and write sports stories, incorporating photography, audio, video and interactive mechanics and the laying out and editing of them. We will also discuss ethics, objectivity, fairness and the future of sports journalism.

0101	Kevin Blackistone	Seats (Total: 3)
	MW 10:00am - 11:15am	KNI 1206

JOUR628N Specialized Topics in News Writing and Reporting; National Security and Press Freedom Reporting

(Perm req)

Credits: 3 Grading Method: Regular,
 Audit

Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.

Prerequisite: permission of department. Credit granted for JOUR628N or JOUR762. Students will learn to research and report on select U.S. agencies, on bilateral relations, on Washington's many national security resources, and on press freedom problems overseas.

0101	Dana Priest	Seats (Total: 8)
	M 10:00am - 12:45pm	KNI 3200

JOUR628R Specialized Topics in News Writing and Reporting; Business Reporting

(Perm req)

Credits: 3 Grading Method: Regular

Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.

Prerequisite: JOUR620 and permission of the instructor (robwells@umd.edu). This course will take an in-depth look at the economic and business climate in West Baltimore, home of the April 2015 riots. Students will use basic business and financial reporting techniques to examine larger social questions, such as the causes of poverty in the neighborhood and challenges to private sector development.

0101	Rob Wells	Seats (Total: 4)
	M 12:00pm - 2:45pm	KNI 1101

JOUR654 Advanced Interactive Multimedia Storytelling

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: JOUR652; and permission of JOUR-Philip Merrill College of Journalism.

Learning and applying Flash and/or other interactive tools to assemble multiple media (i.e. graphics, video, etc.) to create interactive narratives.

0101	Corey Kliewer	Seats (Total: 1)
	W 7:00pm - 9:45pm	TWS 0222B

JOUR655 Advanced Online News Bureau

(Perm req)

Credits: 6 Grading Method: Regular,
Audit

Prerequisite: JOUR603 or JOUR620; and (JOUR504 and JOUR652). Or permission of JOUR-Philip Merrill College of Journalism.

Advanced online journalism training. Students work as online reporters, editors and producers for a news site. Students also package copy from the print and broadcast news bureaus.

0101	Sean Mussenden	Seats (Total: 8)
	Contact instructor or department for details.	

JOUR660 Broadcast News Writing

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: JOUR501. Credit only granted for: JOUR660 or JOUR760. Formerly: JOUR760.

Descriptive and critical analysis of broadcast news; methods of evaluation of news judgments; decision-making and organizational aspects of the broadcast news industry.

0101	Mark Feldstein	Seats (Total: 2)
	MW 10:00am - 11:15am	KNI 2105

JOUR662 Broadcast News Producing

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed or be concurrently enrolled in JOUR661; and (JOUR603 and JOUR660). Also offered as: JOUR362. Credit only granted for: JOUR668B or JOUR662. Formerly: JOUR668B.

Learn and practice the basics of broadcast newscast producing. Design, write, edit and implement a news program.

0101	Cindy Wright	Seats (Total: 3)	
	Tu 7:15pm - 9:15pm	TWS 0117	
	Th 2:00pm - 7:00pm	TWS 0117	Lab

JOUR663 Long Form Broadcast Journalism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: JOUR503 or JOUR603; and JOUR661. Or students who have taken courses with comparable content may contact the department. Also offered as: JOUR363. Credit only granted for: JOUR363, JOUR486, or JOUR663. Formerly: JOUR486.

Productions of long form broadcast news reporting, reality videos or documentaries.

0101	Mark Feldstein	Seats (Total: 6)	
	M 3:00pm - 5:45pm	KNI 1101	

JOUR667 Broadcast News Bureau

(Perm req)

Credits: 6 Grading Method: Regular,
Audit

Prerequisite: JOUR503; or students who have taken courses with comparable content may contact the department. And permission of JOUR-Philip Merrill College of Journalism.

Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.

0101	Susan Katcef	Seats (Total: 6)	
	Contact instructor or department for details.		

JOUR668T Topics in Broadcasting and Electronic Media; On-Camera Performance

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR603 and JOUR660. This course will help students gain the knowledge, polish and confidence to perform professionally on camera, as they develop their broadcast skills in anchoring, doing stand-ups, and interviewing. They will also learn how to use their voices as tools of journalistic expression how to track with authority and emotion.

0101	Cassandra Clayton	Seats (Total: 7)
	M 3:00pm - 5:45pm	KNI 2105

JOUR668V Topics in Broadcasting and Electronic Media; Advanced Video Storytelling

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Advance research and analysis of selected topics in broadcast journalism.

Prerequisite: JOUR661 and permission of instructor. Students will learn advanced storytelling, shooting and editing techniques for multi-platform video, using character-driven, natural sound packages to produce in-depth projects on a common theme. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Bethany Swain	Seats (Total: 1)
	M 2:45pm - 5:45pm	TWS 0222B

JOUR670 Photojournalism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: JOUR504. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR 368P, JOUR 370 or JOUR 670. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.

Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.

0101	Cheryl Meyer	Seats (Total: 3)
	Th 6:00pm - 7:15pm	KNI 1208
	Tu 7:30pm - 8:45pm	KNI 2103 Lab

JOUR689Y News Coverage of Specialized Topics; Reporting on Cybersecurity Journalism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Advance training and practice in writing and reporting news in on specialized field of interest.

Students learn the essentials of cybersecurity as a journalistic beat. This course will balance an exploration of key issues in the field with practical guidance on how journalists approach the subject. Topics include: balancing security and civil liberties; the different roles and responsibilities of government and business; how to find sources in a very secretive field; ethics of coverage and the role of advocacy journalism; and more. Assignments will include reporting a story in text or audio.

0101	Bruce Auster	Seats (Total: 2)
	Tu 7:00pm - 9:45pm	KNI 3202

JOUR698 Special Problems in Communication

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JOUR698I Special Problems in Communication; Advanced Public Affairs Reporting/Investigative Journalism

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Independent study in area of the student's interest.

Prerequisites: JOUR501. Students collaborate on reporting and producing a multimedia investigative project for publication by professional news organizations. This course is open to all Master's students and is required for students specializing in investigative reporting.

0101	Deborah Nelson	Seats (Total: 5)
	M 1:00pm - 3:45pm	KNI 2107

JOUR698L Special Problems in Communication; Graduate Research Colloquium

Credits: 1 Grading Method: Regular,
Audit

Independent study in area of the student's interest.

0101	Kalyani Chadha	Seats (Total: 12)
	Contact instructor or department for details.	

JOUR772 Methods in Computer-Assisted Reporting

(Perm req)

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in JOUR501; or students who have taken courses with comparable content may contact the department.

Computer-assisted (database) journalism; obtaining, manipulating and analyzing complex government data for journalism projects.

Students must contact Associate Dean Rafael Lorente (rlorente@umd.edu) for permission to register.

0101	Daniel Keating	Seats (Total: 11)
	TuTh 9:00am - 10:50am	KNI 2107

JOUR775

Quantitative Methods in Journalism and Public Communication Research

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: JOUR701 or JOUR775. Formerly: JOUR701.

Logic and methods of quantitative data collection and statistical analysis as applied to journalism and public communication studies.

0101	Ronald Yaros	Seats (Total: 12)
	M 1:00pm - 3:45pm	KNI 2109

JOUR776

Qualitative Research Methods in Journalism and Public Communication

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: JOUR711 or JOUR776. Formerly: JOUR711.

Methods of historical, critical and field research in journalism and public communication. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.

0101	Linda Steiner	Seats (Total: 8)
	Tu 9:00am - 11:45am	KNI 1109

JOUR779V

Seminar in Research Problems; Computational Journalism

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Methods of research design and analysis in specialized areas of journalism and public communication research.

Students must contact the instructor for permission to register (nad@umd.edu). This course explores the conceptualization and application of computational and data-driven approaches to journalism practice. Students will examine computational approaches to journalistic data gathering, curation, sensemaking, presentation, and dissemination and learn to apply methods such as text analysis, natural language generation, social computing, simulation, machine learning, and algorithmic accountability among others.

0101	Nicholas Diakopoulos	Seats (Total: 8)
	M 10:00am - 12:45pm	KNI 2107

JOUR798 Master's Professional Fieldwork

(Perm req) Credits: 2-6 Grading Method: Sat-Fail

Research for and preparation of news articles or programs for use in the media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.

Contact department for information to register for this course.

JOUR799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

JOUR801 Advanced Public Communication Theory

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: JOUR601; or students who have taken courses with comparable content may contact the department. Credit only granted for: JOUR601 or JOUR801.

Advanced selected survey of communication & media theory.

0101	Kalyani Chadha	Seats (Total: 12)
	W 1:00pm - 3:45pm	KNI 2109

JOUR888 Doctoral Professional Field Work

Credits: 3-9 Grading Method: Regular,
Audit

Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

JOUR889 Doctoral Tutorial in Journalism and Public Communication

Credits: 3-9 Grading Method: Regular,
Audit

Individual research in journalism and public communication.

Contact department for information to register for this course.

JOUR898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

JOUR899 Doctoral Dissertation Research in Journalism and Mass Communication

(Perm req) Credits: 6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

JWST	Jewish Studies	Spring 2016
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JWST219C Special Topics in Jewish Studies; Contemporary Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

JWST219D Special Topics in Jewish Studies; Women in Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

JWST219E Special Topics in Jewish Studies; Writing Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

JWST219O Special Topics in Jewish Studies; Jewish Languages in America

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU,
DVCC

Also offered as HEBR298O. Credit granted for JWST219O or HEBR298O. Students will explore the history and current use of a variety of languages and dialects in the American Jewish community. They will analyze how language affects identity and the relationships to the majority group, as well as within the cultural group.

0101	Avital Feuer	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

JWST225 Religions of the Ancient Near East

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Credit only granted for: JWST225, RELS219A, or HIST219I.

Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.

0101	Matthew Suriano	Seats (Total: 40)
	TuTh 5:00pm - 6:15pm	SQH 1101

JWST262 Introduction to the Hebrew Bible/Old Testament

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: ENGL262. Credit only granted for: JWST262, HEBR223 or ENGL262. Formerly: HEBR223.

An exploration of the origins and compositional history of biblical literature. Critical study of texts and socio-historical analysis of their background.

Contact department for information to register for this course.

JWST272 Introduction to Jewish Literature

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HL General Education: DSHU, DVUP

A survey of Jewish literature and introduction to methods of reading literature in general and Jewish literature in particular. Concern with what makes a literary corpus Jewish and other issues of canonicity. All texts in English translation.

Also offered as CMLT242. Credit granted for JWST272 or CMLT242.

0101	Adi Mahalel	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	ASY 3211

JWST281**Yiddish I**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Introduction to the Yiddish language, with emphasis on speaking, reading, and writing skills. Students will also learn the history of the language, its significance to Jewish culture, its origins and basic structure.

Also offered as GERM148Y. Credit granted for GERM148Y or JWST281.

0101	Adi Mahalel	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	SQH 1111

JWST319B**Special Topics in Jewish Studies; Arab-Israeli Relations**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319E**Special Topics in Jewish Studies; Literature of the Shoah**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Topics in Jewish Studies.

Contact department for information to register for this course.

JWST319K**Special Topics in Jewish Studies; Jewry of Muscle: Zionism and Jewish Masculinity**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU

Topics in Jewish Studies.

Also offered as ISRL329K. Credit granted for JWST319K or ISRL329K. Part of the Zionist cultural project involved creating a new Jewish masculinity that would replace the diasporic sissy Jew with a strong, healthy new Jewry of Muscle. Using literary and filmic sources, we will analyze how these Zionist and Israeli cultural productions served to build (and sometimes undermine) this new model of Jewish masculinity.

0101	Shirelle Doughty	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

JWST319Q Special Topics in Jewish Studies; Self and Other in Israeli Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in Jewish Studies.

Also offered as ISRL349Q, CMLT398B and JWST319Q. Credit granted for ISRL349Q, CMLT398B, HEBR498Q, or JWST319Q. People representing many different faiths, ethnicities, languages, and cultures populate Modern Israel. Nevertheless, Jews of European origins have dominated the state's political and cultural climate. Through an exploration of literature and film, we will explore the ways in which the sense of the "self" is constructed and the ways in which the "other" is imagined in Israeli culture. "Others" include Palestinians, Sepharadim, Mizrahim, non-Zionists, Women, Eastern Europeans who do not relinquish their ties to the past, as well as individuals who resist the collective ideologies of a modern nation in the making.

0101	Chen Edrei	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	JMZ 0125

JWST319R Special Topics in Jewish Studies; The Jewish Graphic Novel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics in Jewish Studies.

Also offered as ENGL379D and CMLT398R. Credit granted for JWST319R, ENGL379D, or CMLT398R. We will explore the boom in contemporary Jewish graphic novels from all over the world. What defines a Jewish graphic novel? What does a graphic novel accomplish that a conventional novel does not? Can a graphic novel tackle serious issues within the Jewish community, issues such as trauma, sexuality, gender relations, class, and nationalism? We will read the works of Art Spiegelman, Rutu Modan, Leela Corman, Harvey Pekar, and others.

0101	Sheila Jelen, Eric Zakim	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TWS 0236

JWST324 Biblical History and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: HIST321. Credit only granted for: HEBR333, HIST321, or JWST324. Formerly: HEBR333.

Study of the political, social, and religious development of the Jewish nation from its inception to its return from exile in Babylonia around 536 C.E. Focus on biblical texts, archeological finds, and source materials from neighboring cultures to reconstruct political history and the development of religious concepts.

Also offered as HIST321. Credit will be granted for HIST321 or JWST324.

0101	Matthew Suriano	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	SQH 1103

JWST345 The Holocaust of European Jewry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: HIST307. Credit only granted for: HIST307 or JWST345.

Roots of Nazi Jewish policy in the 1930s and during World War II: the process of destruction and the implementation of the "final solution of the Jewish problem" in Europe, and the responses made by the Jews to their concentration and annihilation.

0101	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Tu 12:30pm - 1:20pm	TLF 2103	Discussion
0102	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Tu 2:00pm - 2:50pm	TLF 2103	Discussion
0103	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Th 9:30am - 10:20am	TLF 2103	Discussion
0104	Marsha Rozenblit	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	KEY 0102	
	Th 2:00pm - 2:50pm	KEY 0117	Discussion

JWST369J Special Topics in Study Abroad III; Contemporary Jewish Thought

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

JWST370 Before the Holocaust: The Golden Age of Eastern European Jewry

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit DVUP

Credit only granted for: JWST419E, JWST370, or HIST419Q. Formerly: JWST419E.

An exploration of the history of the Jews of Eastern Europe from the period of the Polish Lithuanian Commonwealth until the Holocaust. Topics to be covered include religious, political, social, and cultural transformation of Jewish life in Eastern Europe in the context of the general political changes in the area.

Also offered as HIST419Q.

0101	Rachel Manekin	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	SQH 1121

JWST386 Experiential Learning in Jewish Studies

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Restriction: Junior standing or higher.

The Jewish Studies Program's internship program. Pre-professional experience in research, analysis, and writing related to Jewish Studies in a variety of work settings.

0101	Instructor: TBA	Seats (Total: 15)
	Contact instructor or department for details.	

JWST409A Research Seminar in Jewish Studies; Literature and Jewish Life in Eastern Europe

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.

Class discusses literary works by different authors describing Jewish life in Eastern Europe, and examine their contribution to the myths, images, and historiography of Eastern European Jewry. Scholarly articles will help us analyze the specific historical conditions that served as background for the different literary works.

0101	Rachel Manekin	Seats (Total: 7)
	TuTh 3:30pm - 4:45pm	SQH 1103

JWST430 Dead Sea Scrolls

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU, DSSP
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Prerequisite: Must have completed one JWST course or one RELS course; or permission of ARHU-Meyerhoff Program & Center for Jewish Studies. Also offered as: RELS430. Credit only granted for: JWST429Q, JWST430, RELS419Q, or RELS430. Formerly: JWST429Q.

A study of the Dead Sea Scrolls in their ancient and modern settings, and in terms of contemporary scholarly interpretations of their meaning. Interpretations of the historical significance of these documents, their connections to ancient Jewish sectarian movements, and their implications for our understanding of Judaism, Christianity, and the history of the Bible.

Note: Also offered as RELS430. Credit granted for JWST430 or RELS430.

0101	Maxine Grossman	Seats (Total: 40)
	MW 2:00pm - 3:15pm	ASY 2309

JWST459D Readings in Medieval Hebrew; The Study of the Hebrew Bible in the Middle Ages

Credits: 3	Grading Method: Regular, Pass-Fail, Audit
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Readings and analysis of Hebrew texts and literature from the Middle Ages. Language of instruction in English; all texts in Hebrew.

Also offered as HIST419T. Credit only granted for JWST459D or HIST419T.

0101	Bernard Cooperman	Seats (Total: 30)
	W 3:30pm - 5:15pm	TLF 1101
	Contact instructor or department for details.	

JWST499 Independent Study in Jewish Studies; Independent Study in Jewish Studies

(Perm req)	Credits: 1-3	Grading Method: Regular, Pass-Fail, Audit
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Prerequisite: permission of department.

Contact department for information to register for this course.

JWST600 General Seminar in Jewish Studies

Credits: 3	Grading Method: Regular
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Introduce graduate students to the fields, problems, and basic methods of research in the contemporary practice of Jewish Studies. Consideration of chronological and historiographical problems, questions of the development of Jewish thought and literature and Jewish religious and cultural history in four rough chronological periods: Biblical Israel, Judaism in Antiquity, Judaism in the Middle Ages and Early Modern Period, and Modern Judaism.

0105	Instructor: TBA	Seats (Total: 2)
Contact instructor or department for details.		

JWST619 Directed Readings in Jewish Studies

(Perm req)

Credits: 3 Grading Method: Regular

Independent Study in Jewish Studies. Readings and papers.

Prerequisite: permission of department.

Contact department for information to register for this course.

JWST619B Directed Readings in Jewish Studies; Hebrew Scripture and Inscriptions

Credits: 3 Grading Method: Regular

Independent Study in Jewish Studies. Readings and papers.

0101	Matthew Suriano	Seats (Total: 5)
Contact instructor or department for details.		

JWST648 Readings in Jewish History

(Perm req)

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Contact department for information to register for this course.

JWST648F Readings in Jewish History; Judaism, Christianity, and Other Greco-Roman Religions

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

Also offered as HIST639F. Credit granted for HIST639F or JWST648F.

0101	Hayim Lapin	Seats (Total: 12)
	Th 6:00pm - 8:30pm	TLF 2101

JWST648L Readings in Jewish History; Ancient Israel and the Archaeology of the Levant

Credits: 3 Grading Method: Regular

Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

0101	Matthew Suriano	Seats (Total: 3)
Contact instructor or department for details.		

JWST658 Readings in Jewish Thought and Culture

(Perm req)

Credits: 3 Grading Method: Regular

Examines key issues in the development of Jewish thought and culture.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines key issues in the development of Jewish thought and culture.

Contact department for information to register for this course.

JWST678 Readings in Jewish Literature

(Perm req)

Credits: 3 Grading Method: Regular

Examines selected themes or literatures in the development of Jewish literary traditions.

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines selected themes on literatures in the development of Jewish literary traditions.

Contact department for information to register for this course.

JWST699 Independent Graduate Readings in Jewish Studies

Credits: 1-3 Grading Method: Regular

Independent readings or guided research in a field of Jewish Studies with a member of the Jewish Studies graduate faculty.

Contact department for information to register for this course.

JWST799 Masters Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-Fail

Research and Writing the Masters Thesis in Jewish Studies.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES1000 Physical Education Activities: Coed; Basketball (Intermediate)

Credits: 2 Grading Method: Regular,
Pass-Fail

For majors only. Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Calvin Lu	Seats (Total: 40)	
	MW 10:00am - 12:00pm	ERC 0135	Lab
0003	Calvin Lu	Seats (Total: 40)	
	TuTh 12:00pm - 2:00pm	ERC 0135	Lab

KNES1310 Physical Education Activities: Coed; Jogging (Intermediate)

Credits: 2 Grading Method: Regular,
Pass-Fail

Prerequisite: KNES 131V or 10k experience. For majors only. One weekend event expected. Attendance is required the first day of class. Students must pay a \$40 instructional materials fee.

0001	Andrew Ginsberg	Seats (Total: 40)	
	TuTh 2:00pm - 4:00pm	ARM 1122	Lab

KNES131V Physical Education Activities: Coed; Jogging (Beginning)

Credits: 2 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0002	Calvin Lu	Seats (Total: 60)	
	MW 2:00pm - 4:00pm	ARM 1122	Lab

KNES131Z Physical Education Activities: Coed; Beginning Softball

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required of all students the first day in Ritchie Arena (1100), thereafter the class will meet on the ENGR Fields. Schedule adjustment is the first week of class only. Students must pay a \$40 instructional materials fee.

0001	Meir Lewin	Seats (Total: 25)		
	Meets March 21, 2016 - May 10, 2016			
	TuTh 1:00pm - 3:00pm	ENGR FIELD	Lab	

KNES1340 Physical Education Activities: Coed; Bowling (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

For majors only. Attendance is required the first day of class. Students must pay a \$40 instructional materials fee plus bowling shoes are required. Schedule adjustment is the first week of class only.

0001	Kevin Alexander	Seats (Total: 40)		
	Meets January 25, 2016 - March 11, 2016			
	TuTh 8:00am - 10:00am	SSU B0106C	Lab	
0002	Kevin Alexander	Seats (Total: 40)		
	Meets March 21, 2016 - May 10, 2016			
	TuTh 8:00am - 10:00am	SSU B0106C	Lab	

KNES1400 Physical Education Activities: Coed; Tumbling and Balancing (Intermediate)

Credits: 1 Grading Method: Regular

Attendance is required on the first day of class. Schedule Adjustment is the first week of class only. Students must pay a \$40 instructional materials fee.

0001	Joshua Montfort	Seats (Total: 25)		
	Meets March 21, 2016 - May 10, 2016			
	TuTh 10:00am - 12:00pm	SPH 1120	Lab	

KNES140R Physical Education Activities: Coed; Trampoline (Beginning)

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Scheduled adjustment is the first week of classes only. Students must pay a \$40 instructional materials fee.

0001	Joshua Montfort	Seats (Total: 25)		
	Meets January 25, 2016 - March 11, 2016			
	MW 10:00am - 12:00pm	SPH 1120	Lab	

KNES140V

Credits: 1

Attendance is required on the first day of class. Schedule Adjustment is the first week of class only. Students must pay a \$40 instructional materials fee.

0001	Alexander Mateik	Seats (Total: 25)
Meets January 25, 2016 - March 11, 2016		
	TuTh 10:00am - 12:00pm	SPH 1120 Lab

KNES144Q

Credits: 2

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Kenneth Klotz	Seats (Total: 35)	
	MW 12:00pm - 2:00pm	SPH 0107	Lab

KNES144R

Credits: 2

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Kenneth Klotz	Seats (Total: 35)	
	MW 10:00am - 12:00pm	SPH 0107	Lab

KNES144T

Credits: 2

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Kenneth Klotz	Seats (Total: 35)	
	MW 8:00am - 10:00am	SPH 0107	Lab

KNES1520

Credits: 1

Restriction: Must be in a major within SPHL-Kinesiology department. Schedule adjustment is the first week of class only. Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Timothy Henkel	Seats (Total: 24)		
	Meets January 25, 2016 - March 12, 2016			
	MW 10:00am - 12:00pm	ARM 1122	Lab	
0002	Timothy Henkel	Seats (Total: 24)		
	Meets March 21, 2016 - May 10, 2016			
	MW 10:00am - 12:00pm	ARM 1122	Lab	

KNES154N Physical Education Activities: Coed; Swimming (Beginning)

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Timothy Hamlet	Seats (Total: 22)		
	TuTh 8:00am - 9:15am	ERC B0120	Lab	

KNES154O Physical Education Activities: Coed; Swimming (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Natalie Taylor	Seats (Total: 22)		
	MW 1:00pm - 2:15pm	ERC B0120	Lab	

KNES154P Physical Education Activities: Coed; Swimming (Advanced)

Credits: 2 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Natalie Taylor	Seats (Total: 22)		
	MW 9:00am - 11:00am	ERC B0120-2	Lab	

KNES154T Physical Education Activities: Coed; Swimming, Fitness (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Matthew Quigley	Seats (Total: 22)	
	TuTh 9:30am - 10:45am	ERC B0120	Lab

KNES154W Physical Education Activities: Coed; Swimming/Lifeguard Training

Credits: 2 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Christopher Whipple	Seats (Total: 20)	
	MW 8:00am - 10:00am	ERC B0120	Lab

KNES157N Physical Education Activities: Coed; Weight Training (Beginning)

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Drew Jordre	Seats (Total: 32)	
	MW 1:00pm - 2:15pm	SPH 0103	Lab
0002	Drew Jordre	Seats (Total: 32)	
	MW 11:00am - 12:15pm	SPH 0103	Lab
0003	Calvin Lu	Seats (Total: 32)	
	TuTh 2:00pm - 3:15pm	SPH 0103	Lab

KNES157O Physical Education Activities: Coed; Weight Training (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department. Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

0001	Drew Jordre	Seats (Total: 32)	
	MW 12:00pm - 1:15pm	SPH 0103	Lab

0002	Laura Rush	Seats (Total: 32)	
	TuTh 12:00pm - 1:15pm	SPH 0103	Lab
0005	Shaun Edmonds	Seats (Total: 32)	
	TuTh 11:00am - 12:15pm	SPH 0103	Lab

KNES157T Physical Education Activities: Coed; Fight the 15: Introduction to Fitness and an Active Lifestyle

Credits: 1 Grading Method: Regular,
Pass-Fail

For non-majors only. Students must pay a \$40 instructional materials fee. Intended for students interested in learning basic aspects of exercise and fitness. Coverage of fitness fundamentals, training concepts and techniques, and facilities available on and off campus to aid in an active lifestyle.

0001	Emily Sterner	Seats (Total: 30)	
	MW 10:00am - 11:15am	SPH 2101	Lab

KNES161G Physical Education Activities: Coed; Yoga for Fitness (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department. Attendance is required beginning the first day of class. Students must pay a \$40 instructional materials fee.

0001	Laura Rush	Seats (Total: 30)	
	TuTh 3:00pm - 4:15pm	SPH 0107	Lab

KNES161K Physical Education Activities: Coed; Cardio Kickboxing (Beginning)

Credits: 2 Grading Method: Regular,
Pass-Fail

Attendance is required beginning the first day of class Students must pay a \$40 instructional materials fee.

0001	Laura Rush	Seats (Total: 50)	
	TuTh 1:00pm - 3:00pm	ERC 0105	Lab
<i>Restriction: Must be in a major within SPHL-Kinesiology department. Attendance is required beginning the first day of class.</i>			

KNES161N Physical Education Activities: Coed; Conditioning (Beginning)

Credits: 1 Grading Method: Regular,
Pass-Fail

Schedule Adjustment is the first week of classes only. Attendance is required on the first day of class. Students must pay a \$40 instructional materials fee.

Contact department for information to register for this course.

KNES161O Physical Education Activities: Coed; Conditioning (Intermediate)

Credits: 1 Grading Method: Regular,
Pass-Fail

Restriction: Must be in a major within SPHL-Kinesiology department. Attendance is required on the first day of class. Schedule adjustment is the first week of class only. Students must pay a \$40 instructional materials fee.

0001	Timothy Henkel	Seats (Total: 32)		
	Meets March 21, 2016 - May 10, 2016			
	MW 2:00pm - 4:00pm	SPH 2101	Lab	

KNES161T Physical Education Activities: Coed; Yoga

Credits: 1 Grading Method: Regular,
Pass-Fail

Attendance on the first day of class is mandatory. Students must pay a \$40 instructional materials fee.

0001	Anne Contee	Seats (Total: 30)		
	MW 8:00am - 9:15am	SPH 0128-2	Lab	
0002	Anne Contee	Seats (Total: 30)		
	MW 9:00am - 10:15am	SPH 0128-2	Lab	

KNES201 Kinesiological Principles of Physical Activity

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

0101	Andrea Romeo	Seats (Total: 25)
	W 2:00pm - 2:50pm	SPH 0305
0102	Andrea Romeo	Seats (Total: 25)
	W 11:00am - 11:50am	SPH 0305
0105	Shaun Edmonds	Seats (Total: 25)
	W 2:00pm - 2:50pm	SPH 0223
0106	Shaun Edmonds	Seats (Total: 25)
	W 3:00pm - 3:50pm	SPH 0223

KNES201U Kinesiological Principles of Physical Activity

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

Contact department for information to register for this course.

KNES210 Essentials of Exercise Science for Fitness Professionals

Credits: 2 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Corequisite: KNES211 or KNES212. Formerly: KNES289N.

Basic concepts of human anatomy, exercise physiology, applied kinesiology, nutrition and the physiology of exercise training. Includes the CORE knowledge required for the American Council on Exercise (ACE) Personal Trainer and the ACE Group Fitness Instructor National Certification Examinations.

0101	Rosemary Lindle	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

KNES211 Methods of Personal Fitness Instruction

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in KNES210. Formerly: KNES289P.

Development of personal training skills including effective communication, client assessment, fitness testing, goal setting, program design, program implementation, legal responsibilities and business strategies. This course prepares and provides the student the opportunity to sit for the American Council on Exercise (ACE) Personal Trainer National Certification exam.

Non-KNES majors: If you are registered for KNES210 and need permission to register for this course please contact a KNES advisor at advisingknes@umd.edu.

0101	Brianne Rowh	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ERC 2113

KNES212 Methods of Group Fitness Instruction

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in KNES210. Formerly: KNES289G.

Teaching and evaluation of a variety of group exercise programs including, step, cardio-boxing, cycling, muscle conditioning and circuit training. This course prepares and provides the student the opportunity to sit for the American Council on Exercise (ACE) Group Fitness Instructor National Certification exam.

Non-KNES majors: If you are registered for KNES210 and need permission to register for this course please contact a KNES advisor at advisingknes@umd.edu.

0101	Tami Bergan	Seats (Total: 25)
	TuTh 3:00pm - 4:15pm	ERC 0105

KNES222 Gambling in the New Millennium: Poker, The Preakness, Point-spreads, Powerball and Public Policy

Credits: 3 Grading Method: Regular, General Education: DSHS,
Pass-Fail, Audit SCIS

Recommended: ENGL101 and COMM107.

Is gambling in the public interest? Students will critically examine the various implications of "what it means to gamble" through investigations of various gambling forms, different sectors of the gambling industry and the related economics, along with consumer behavior, sport, public policy and public health in this context.

0101	Stephen McDaniel	Seats (Total: 20)
	MW 2:00pm - 2:50pm	MCB 1207
	F 9:00am - 9:50am	SPH 0303 Discussion

0102	Stephen McDaniel	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	MCB 1207	
	F 10:00am - 10:50am	SPH 0303	Discussion
0103	Stephen McDaniel	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	MCB 1207	
	F 11:00am - 11:50am	SPH 0303	Discussion
0104	Stephen McDaniel	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	MCB 1207	
	F 12:00pm - 12:50pm	SPH 0303	Discussion

KNES282 Basic Care and Prevention of Athletic Injuries

Credits: 3 Grading Method: Regular,
Pass-Fail

Restriction: Must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES282 or KNES381.

Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.

0101	Joanne Klossner	Seats (Total: 32)	
	TuTh 2:00pm - 3:15pm	SPH 0308	

KNES286 Empowering Healthy Physical Activity

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Learn evidence-based techniques that health professionals use to promote physical activity programs that meet the needs of diverse populations. Develop and implement an intervention plan targeting a specific population.

0101	Marvin Scott	Seats (Total: 30)	
	TuTh 9:30am - 10:45am	SPH 0302	

KNES287 Sport and American Society

Credits: 3 Grading Method: Regular, CORE: SB, D General Education: DSHS,
Pass-Fail, Audit DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

Restricted to majors or non-majors with less than or equal to 45 credits.

0101	Adam Beissel	Seats (Total: 22)	
	MW 11:00am - 11:50am	SPH 1312	
	M 8:00am - 8:50am	SPH 0303	Discussion
0102	Adam Beissel	Seats (Total: 22)	
	MW 11:00am - 11:50am	SPH 1312	
	M 9:00am - 9:50am	SPH 0303	Discussion
0103	Adam Beissel	Seats (Total: 22)	
	MW 11:00am - 11:50am	SPH 1312	
	M 10:00am - 10:50am	SPH 1302	Discussion
0104	Adam Beissel	Seats (Total: 22)	
	MW 11:00am - 11:50am	SPH 1312	
	M 1:00pm - 1:50pm	SPH 0305	Discussion

KNES287U Sport and American Society

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D General Education: DSHS, DVUP

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

Contact department for information to register for this course.

KNES289 Topical Investigations

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES289W Topical Investigations; The Cybernetic Human

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNS, SCIS

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

0101	Ross Miller	Seats (Total: 20)	
	MF 2:00pm - 2:50pm	CCC 1100	
	W 12:00pm - 12:50pm	SPH 0301	Discussion
0102	Ross Miller	Seats (Total: 20)	
	MF 2:00pm - 2:50pm	CCC 1100	
	W 10:00am - 10:50am	SPH 0301	Discussion
0103	Ross Miller	Seats (Total: 20)	
	MF 2:00pm - 2:50pm	CCC 1100	
	W 1:00pm - 1:50pm	CCC 1115	Discussion
0104	Ross Miller	Seats (Total: 20)	
	MF 2:00pm - 2:50pm	CCC 1100	
	W 2:00pm - 2:50pm	CHE 2116	Discussion

KNES293 History of Sport in America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Restricted to Majors or non-majors with less than or equal to 45 credits.

0101	Michael Friedman	Seats (Total: 22)	
	MW 1:00pm - 1:50pm	SPH 1312	
	M 10:00am - 10:50am	SPH 1303	Discussion
0102	Michael Friedman	Seats (Total: 22)	
	MW 1:00pm - 1:50pm	SPH 1312	
	M 11:00am - 11:50am	SPH 0305	Discussion
0103	Michael Friedman	Seats (Total: 22)	
	MW 1:00pm - 1:50pm	SPH 1312	
	M 2:00pm - 2:50pm	SPH 0308	Discussion

0104	Michael Friedman	Seats (Total: 22)	
	MW 1:00pm - 1:50pm	SPH 1312	
	W 10:00am - 10:50am	SPH 1302	Discussion

KNES293U History of Sport in America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS

The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.

Contact department for information to register for this course.

KNES300 Biomechanics of Human Motion

Credits: 4 Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

0101	Jae Kun Shim	Seats (Total: 18)	
	MW 3:00pm - 4:15pm	SPH 1312	
	Tu 8:00am - 10:00am	SPH 0223	Lab
0102	Jae Kun Shim	Seats (Total: 18)	
	MW 3:00pm - 4:15pm	SPH 1312	
	Tu 10:00am - 12:00pm	SPH 0223	Lab
0103	Jae Kun Shim	Seats (Total: 18)	
	MW 3:00pm - 4:15pm	SPH 1312	
	Tu 12:00pm - 2:00pm	SPH 0223	Lab
0104	Jae Kun Shim	Seats (Total: 18)	
	MW 3:00pm - 4:15pm	SPH 1312	
	Tu 2:00pm - 4:00pm	SPH 0223	Lab

0105	Jae Kun Shim	Seats (Total: 18)
	MW 3:00pm - 4:15pm	SPH 1312
	Th 8:00am - 10:00am	SPH 0223 Lab
0106	Jae Kun Shim	Seats (Total: 18)
	MW 3:00pm - 4:15pm	SPH 1312
	Th 10:00am - 12:00pm	SPH 0223 Lab
0107	Jae Kun Shim	Seats (Total: 18)
	MW 3:00pm - 4:15pm	SPH 1312
	Th 12:00pm - 2:00pm	SPH 0223 Lab
0108	Jae Kun Shim	Seats (Total: 18)
	MW 3:00pm - 4:15pm	SPH 1312
	Th 2:00pm - 4:00pm	SPH 0223 Lab

KNES300H

Biomechanics of Human Motion

(Perm req)

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201. And 1 course with a minimum grade of C- from (MATH112, MATH113, MATH115); or (must have completed one General Education: Fundamental Studies-Math course with a minimum grade of C-; and must have math eligibility of MATH140 or higher). Recommended: PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.

The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.

0101	Jae Kun Shim	Seats (Total: 3)
	MW 3:00pm - 4:15pm	SPH 1312
	Contact instructor or department for details.	

KNES332

Exercise Testing and Prescription for the Fitness Professional

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman	Seats (Total: 25)
	WF 8:00am - 10:00am	SPH 0308

KNES332H Exercise Testing and Prescription for the Fitness Professional

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within SPHL-Kinesiology department. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.

Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.

0101	Jo Zimmerman	Seats (Total: 2)
	WF 8:00am - 10:00am	SPH 0308

KNES333 Motor Development and Fitness for Individuals with Disabilities

Credits: 3 Grading Method: Regular

Restriction: Must be in a major within the SPHL-Kinesiology department.

Implications of Federal and State regulations for planning and implementing motor development and physical fitness programs for individuals with disabilities. Evaluation strategies for assessing motor performance and fitness levels in educational programs for these individuals.

Students are required to choose a placement for a service-learning experience involving direct work with children who have disabilities. Students may choose from a list of local schools (listed in the syllabus) that have special education programs; or they may complete this requirement at the Children's Developmental Clinic held on campus in the SPH (School of Public Health) building every Saturday 8:30a-12:30p.

0101	Dennis Vacante	Seats (Total: 32)
	Th 7:00pm - 9:30pm	SPH 0308

KNES334 Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle.

Credits: 3 Grading Method: Regular, General Education: DSSP,
Pass-Fail DVUP

Credit only granted for: KNES498L or KNES334. Formerly: KNES498L.

Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs and to lead active lifestyles.

0101	Ana Palla-Kane	Seats (Total: 30)
	Meets March 13, 2016 - May 10, 2016	
	W 4:15pm - 5:50pm	SPH 0124
	Class time/details on ELMs	ONLINE

KNES335 Swimming Pool Management

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Analysis of the position of the swimming pool manager. The systematic treatment of swimming pool water; swimming pool first aid; and laws pertaining to swimming pool operation. Qualifies the student for a pool operator's license in most Maryland counties.

0101	Christopher Whipple	Seats (Total: 35)
	TuTh 9:30am - 10:30am	ERC B0136 Lab

KNES350 The Psychology of Sports

Credits: 3 Grading Method: Regular, General Education: DSHS
Pass-Fail, Audit

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

0101	Elizabeth Brown	Seats (Total: 70)
	TuTh 2:00pm - 3:15pm	SPH 1303
	<i>Restriction: Must be in a major within SPHL-Kinesiology department.</i>	
0201	Evan Brody	Seats (Total: 70)
	TuTh 8:00am - 9:15am	SPH 1303

KNES350H The Psychology of Sports

(Perm req) Credits: 3 Grading Method: Regular, General Education: DSHS
Pass-Fail, Audit

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

Prerequisite: permission of department.

0101	Elizabeth Brown	Seats (Total: 2)
	TuTh 2:00pm - 3:15pm	SPH 1303
0201	Evan Brody	Seats (Total: 3)
	TuTh 8:00am - 9:15am	CSS 2324

KNES360

Physiology of Exercise

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

0101	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Tu 8:00am - 10:00am	SPH 0124 Lab
0102	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Tu 10:00am - 12:00pm	SPH 0124 Lab
0103	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Tu 12:00pm - 2:00pm	SPH 0124 Lab
0104	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Tu 2:00pm - 4:00pm	SPH 0124 Lab
0105	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Th 8:00am - 10:00am	SPH 0124 Lab

0106	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Th 10:00am - 12:00pm	SPH 0124 Lab
0107	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Th 12:00pm - 2:00pm	SPH 0124 Lab
0108	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	Th 2:00pm - 4:00pm	SPH 0124 Lab
0109	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	M 2:00pm - 4:00pm	SPH 0124 Lab
0110	Marc Rogers	Seats (Total: 18)
	MWF 12:00pm - 12:50pm	SPH 1312
	W 2:00pm - 4:00pm	SPH 0124 Lab

KNES360H

Physiology of Exercise

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI202 and BSCI201; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).

A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.

0101	Marc Rogers	Seats (Total: 3)
	MWF 12:00pm - 12:50pm	SPH 1312
	Contact instructor or department for details.	

KNES370

Motor Development

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

0101	Ana Palla-Kane MW 3:00pm - 3:50pm M 8:00am - 8:50am	Seats (Total: 18) ARM 0131 SPH 0124	Discussion
0102	Ana Palla-Kane MW 3:00pm - 3:50pm M 9:00am - 9:50am	Seats (Total: 18) ARM 0131 SPH 0124	Discussion
0103	Ana Palla-Kane MW 3:00pm - 3:50pm M 10:00am - 10:50am	Seats (Total: 18) ARM 0131 SPH 0124	Discussion
0104	Ana Palla-Kane MW 3:00pm - 3:50pm M 11:00am - 11:50am	Seats (Total: 18) ARM 0131 SPH 0124	Discussion
0105	Ana Palla-Kane MW 3:00pm - 3:50pm M 12:00pm - 12:50pm	Seats (Total: 18) ARM 0131 SPH 0124	Discussion
0106	Ana Palla-Kane MW 3:00pm - 3:50pm M 1:00pm - 1:50pm	Seats (Total: 18) ARM 0131 SPH 0124	Discussion

KNES370H

Motor Development

(Perm req)

Credits: 3

Grading Method: Regular

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

Prerequisite: permission of department.

0101	Ana Palla-Kane MW 3:00pm - 3:50pm Contact instructor or department for details.	Seats (Total: 2) ARM 0131
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KNES370U**Motor Development**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Restriction: Must be in a major within SPHL-Kinesiology department.**Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.***Contact department for information to register for this course.****KNES385****Motor Control and Learning**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Restriction: Must be in a major within SPHL-Kinesiology department.**Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.*

0101	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	W 11:00am - 11:50am	SPH 0124	Discussion
0102	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	W 12:00pm - 12:50pm	SPH 0124	Discussion
0103	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	W 1:00pm - 1:50pm	SPH 0124	Discussion
0104	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	F 8:00am - 8:50am	SPH 0124	Discussion
0105	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	F 9:00am - 9:50am	SPH 0124	Discussion

0106	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	F 10:00am - 10:50am	SPH 0124	Discussion
0107	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	F 11:00am - 11:50am	SPH 0124	Discussion
0108	Rodolphe Gentili	Seats (Total: 18)	
	MW 2:00pm - 2:50pm	SPH 1312	
	F 12:00pm - 12:50pm	SPH 0124	Discussion

KNES385H Motor Control and Learning

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Physiological and cognitive bases for motor control and their applications to the acquisition of movement skills and understanding of movement disorders. Topics include: neurophysiology, motor control theory, sensory/perceptual processes, perception-action coupling, information processing, memory, attention, individual differences, motivation, practice organization and role of feedback.

Prerequisite: permission of department.

0101	Rodolphe Gentili	Seats (Total: 4)	
	MW 2:00pm - 2:50pm	SPH 1312	
	Contact instructor or department for details.		

KNES386 Experiential Learning

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have completed three KNES core classes. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Explore and analyze concepts and procedures related to a quality service-learning experience to include planning, implementing, and evaluating a service-learning project.

Junior Standing.

0101	Marvin Scott	Seats (Total: 25)	
	TuTh 12:30pm - 1:45pm	SPH 0308	

KNES389**Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES389D**Topical Investigations; Sport for Development**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

0101	Adam Beissel	Seats (Total: 35)
	W 1:00pm - 1:50pm	SPH 0307
	Class time/details on ELMs	ONLINE

KNES389E**Topical Investigations; Childrens Development Clinic**

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Students will be required to complete fingerprinting and background checks (at no cost to the students). A service-learning experience at the Children's Developmental Clinic in the SPH (School of Public Health) building each Saturday morning (8:30-12:30). It is designed to give students a one-on-one, hands-on experience in working with a child who has special educational needs in the areas of motor development, language, reading, and social skills. There are two training sessions and nine sessions with the children.

0101	Dennis Vacante	Seats (Total: 30)
	Sa 8:30am - 12:30pm	SPH 2101

KNES389K**Topical Investigations; Kinesiology Internship**

(Perm req)

Credits: 3

Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of instructor and department.

Contact department for information to register for this course.

KNES400**The Foundations of Public Health in Kinesiology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287; and must have completed or be concurrently enrolled in KNES360. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 18) ARM 0131 SPH 0305	Discussion
0102	Shannon Jette MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 18) ARM 0131 SPH 0305	Discussion
0103	Shannon Jette MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 18) ARM 0131 SPH 0307	Discussion
0104	Shannon Jette MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 18) ARM 0131 SPH 0303	Discussion
0105	Shannon Jette MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 18) ARM 0131 SPH 0301	Discussion
0106	Shannon Jette MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 18) ARM 0131 SPH 0301	Discussion

0107	Shannon Jette	Seats (Total: 18)
	MW 11:00am - 11:50am	ARM 0131
	F 2:00pm - 2:50pm	SPH 0301 Discussion
0108	Shannon Jette	Seats (Total: 18)
	MW 11:00am - 11:50am	ARM 0131
	F 3:00pm - 3:50pm	SPH 0301 Discussion

KNES400H The Foundations of Public Health in Kinesiology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in KNES287; and must have completed or be concurrently enrolled in KNES360. Restriction: Senior standing or higher; and must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES400 or KNES498A. Formerly: KNES498A.

An investigation of the role of physical activity and inactivity in relation to health and well-being through a public health perspective. Past and current perspectives on health promotion, health education, and social policies and approaches will be examined for various populations.

0101	Shannon Jette	Seats (Total: 4)
	MW 11:00am - 11:50am	ARM 0126
	Contact instructor or department for details.	

KNES442 Psychology of Exercise and Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES442 or KNES498O. Formerly: KNES498O.

Examines the antecedents and consequences of exercise behavior. Explores motivation, attitude, control, socialization. Proposes intervention strategies at the individual, organizational and societal levels.

0101	Seppo Iso-Ahola	Seats (Total: 30)
	M 4:00pm - 6:30pm	SPH 1302

KNES442H Psychology of Exercise and Health

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES350. Restriction: Junior standing or higher. Credit only granted for: KNES442 or KNES498O. Formerly: KNES498O.

Examines the antecedents and consequences of exercise behavior. Explores motivation, attitude, control, socialization. Proposes intervention strategies at the individual, organizational and societal levels.

0101	Seppo Iso-Ahola	Seats (Total: 2)
	M 4:00pm - 6:30pm	SPH 1302

KNES451 Children and Sport: A Psychosocial Perspective

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

0101	Elizabeth Brown	Seats (Total: 50)
	Tu 4:00pm - 6:30pm	SPH 1303

KNES451H Children and Sport: A Psychosocial Perspective

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: KNES350. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.

Prerequisite: permission of department.

0101	Elizabeth Brown	Seats (Total: 4)
	Tu 4:00pm - 6:30pm	SPH 1303

KNES457 Managing Youth Programs: Educational, Fitness and Sport

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES370 and KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES457 or KNES498Y.

An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation's youth.

Restricted to KNES majors with 85 credits completed.

0101	Jay Goldstein	Seats (Total: 35)
	MWF 11:00am - 11:50am	SPH 0308

KNES460 **Physiology of Aging and the Impact of Physical Activity**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers	Seats (Total: 33)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES460H **Physiology of Aging and the Impact of Physical Activity**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES360. Credit only granted for: KNES498F or KNES460. Formerly: KNES498F.

Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.

0101	Marc Rogers	Seats (Total: 2)
	TuTh 2:00pm - 3:15pm	SPH 0302

KNES461 **Exercise and Body Composition**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

0101	Ben Hurley	Seats (Total: 33)
	TuTh 9:30am - 10:45am	SPH 0308

KNES461H Exercise and Body Composition

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KNES360.

An in-depth overview on how body composition is measured, what it is composed of, and the physiological and biochemical signals that change it. The effects of acute and chronic exercise on food storage, breakdown, and use as an energy source, is the major focus. This information is applied to important issues in public health and athletic performance.

Prerequisite: permission of department.

0101	Ben Hurley	Seats (Total: 2)
	TuTh 9:30am - 10:45am	SPH 0308

KNES466 Graded Exercise Testing

Credits: 3 Grading Method: Regular

Prerequisite: KNES360; or permission of SPHL-Kinesiology department.

Functional and diagnostic examination of the cardiovascular responses to graded exercise testing. Emphasis on electrophysiology, mechanisms of arrhythmias, normal electrical activation of the heart, axis termination and the normal 12-lead electrocardiogram.

0101	Marc Rogers	Seats (Total: 33)
	TuTh 11:00am - 12:15pm	SPH 0307

KNES466H Graded Exercise Testing

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: KNES360; or permission of SPHL-Kinesiology department.

Prerequisite: permission of department.

0101	Marc Rogers	Seats (Total: 2)
	TuTh 11:00am - 12:15pm	SPH 0307

KNES477

Honors Thesis

(Perm req)

Credits: 3

Grading Method: Regular

General Education: DSSP

Prerequisite: KNES476. Corequisite: KNES478. Restriction: Must be a KNES Honors student; and senior standing. Credit only granted for: KNES399 or KNES477.

Advisement will be on the individual basis. Thesis must be defended in the honors seminar.

0101	J Carson Smith	Seats (Total: 10)
	F 10:00am - 10:50am	SPH 0301
	Contact instructor or department for details.	

KNES478

Honors Seminar; Honors Seminar

(Perm req)

Credits: 1

Grading Method: Regular

Guided discussion of research topics of current interest.

0101	J Carson Smith	Seats (Total: 20)
	F 11:00am - 11:50am	SPH 0301

KNES483

Sport Marketing and Media

Credits: 3 Grading Method: Regular, Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.

0101	Stephen McDaniel	Seats (Total: 32)
	TuTh 11:00am - 12:15pm	SPH 0305

KNES483H**Sport Marketing and Media**

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: KNES287. Restriction: Junior standing or higher; and must be in a major within SPHL-Kinesiology department.

Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.

0101	Stephen McDaniel	Seats (Total: 2)
	TuTh 11:00am - 12:15pm	SPH 0305

KNES485**Sport and Globalization**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVUP

Prerequisite: KNES287. Restriction: Junior standing or higher. Credit only granted for: KNES485 and KNES498T.

Examination of sport culture from a global perspective; focuses on theorizing the similarities and differences between various national sporting cultures.

0101	David Andrews	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

KNES497**Kinesiology Senior Seminar**

Credits: 3

Grading Method: Regular

CORE: CS

General Education: DSSP

Prerequisite: A professional writing course with a minimum grade of C-; and all 7 KNES core courses and 2 KNES option courses. And STAT100; or students who have taken courses with comparable content may contact the department. And minimum grade of C- in KNES400; or must be concurrently enrolled in KNES400. Restriction: Senior standing or higher; and must be in Kinesiology program.

Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.

[Click here for more information.](#)

0101	Ben Hurley W 8:00am - 10:30am <i>"Exercise Prescription for the Prevention and Treatment of Chronic Disease".</i>	Seats (Total: 20) SPH 0303
0102	Michael Friedman W 4:00pm - 6:30pm <i>"Socio-Historical Aspects of Sports & Physical Culture"</i>	Seats (Total: 20) SPH 0223
0103	James Hagberg Tu 8:00am - 10:30am <i>"Physical Activity and the Obesity and Diabetes Epidemic"..</i>	Seats (Total: 20) SPH 0305
0106	Joanne Klossner TuTh 11:00am - 12:15pm <i>"Hot Topics in Sports Medicine"</i>	Seats (Total: 20) ASY 3219
0107	Adam Beissel M 4:00pm - 6:30pm <i>"Qualitative Research for Sport and Physical Culture": This section wil facilitate an in-depth, independent examination of the trends, challenges, and opportunities related to the contemporary sports industry.</i>	Seats (Total: 20) SPH 0305
0109	Jo Zimmerman M 9:00am - 11:30am <i>Exercise & Brain Health: From Psychobiology to Behavior.</i>	Seats (Total: 20) JMP 1109
0110	Evan Brody Tu 4:00pm - 6:30pm <i>Applied Sport and Exercise Psychology for Practitioners.</i>	Seats (Total: 20) SPH 0124
0111	Tim Kiemel W 4:00pm - 6:30pm <i>Normal and Impaired Sensorimotor Control: Standing Balance, Walking and and Other Activities of Daily Life.</i>	Seats (Total: 20) SPH 0305
0112	Evan Brody Th 4:00pm - 6:30pm <i>Applied Sport and Exercise Psychology for Practitioners.</i>	Seats (Total: 20) SPH 0225

KNES498**Special Topics in Kinesiology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Contact department for information to register for this course.

KNES498N**Special Topics in Kinesiology; Muscular Aspects of Exercise Physiology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

0101	Eva Chin	Seats (Total: 20)
	M 2:00pm - 4:30pm	CCC 1115

KNES498T**Special Topics in Kinesiology; Principles and Applications of Exercise Rehabilitation**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisites: KNES300/KNES300H and KNES360/KNES360H. Students will learn the basic principles of exercise and rehabilitation of commonly seen injuries in a clinical setting. They will also learn basic assessment techniques, review normal ranges of motion, and determine how the function of the muscles directly affects the rehabilitation process.

0101	Larry Plotkin	Seats (Total: 35)
	TuTh 8:00am - 9:15am	SPH 0307

KNES498W**Special Topics in Kinesiology; Prosthetics for Limb Amputations**

Credits: 3 Grading Method: Regular,
Pass-Fail

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisite: KNES300. Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.

0101	Douglas Collier	Seats (Total: 35)
	Tu 1:00pm - 3:30pm	CCC 1111

KNES601

Credits: 3

Prerequisite: KNES600; and must have completed an undergraduate statistics course (e.g., STAT100 or equivalent).

An exploration of basic epidemiological study design, methods, and health outcomes in the field of physical activity.

0101	Jennifer Roberts	Seats (Total: 15)
	M 4:00pm - 6:30pm	SPH 0301

KNES609

(Perm req)

Credits: 1 Grading Method: Regular

Issues, methodologies, and critical analyses of current research in Kinesiology.

Contact department for information to register for this course.

KNES610

Credits: 3

Studies methods and techniques of research used in Kinesiology; an analysis of examples of their use; and practice in their application to problems of interest to the student.

0101	Seppo Iso-Ahola	Seats (Total: 15)
	W 4:00pm - 6:30pm	SPH 0303

KNES618

Credits: 1

Student-led presentations of contemporary literature in the areas of genetics, exercise science, fitness and health. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.

0101	James Hagberg	Seats (Total: 15)
	F 1:00pm - 1:50pm	SPH 2334

KNES689

Special Problems in Kinesiology

(Perm req)

Credits: 1-6

Grading Method: Regular

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES689B

Special Problems in Kinesiology; Physical Cultural Studies

Credits: 3

Grading Method: Regular,
Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	David Andrews	Seats (Total: 15)
	M 4:00pm - 6:30pm	SPH 2334

KNES689J

Special Problems in Kinesiology; Diversity in Physical Education

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Designed to develop pedagogical competencies required in an inclusive physical education context. Students will learn to assess motor skill and fitness levels, analyze data, and develop appropriate instructional materials for individuals who have a spectrum of challenges. Case studies will be used to examine and apply strategies for adapting and modifying lessons to ensure they are safe and developmentally appropriate.

IH60	Brad Weiner	Seats (Total: 15)
	W 4:30pm - 7:30pm	SPH 0308

KNES689N

Special Problems in Kinesiology; Curriculum Development in Physical Education

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

IH60	Dena Deglau	Seats (Total: 15)
	Tu 4:30pm - 7:30pm	Location: TBA

KNES6890

Credits: 3

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	Seppo Iso-Ahola	Seats (Total: 5)
	M 4:00pm - 6:30pm	SPH 1302

KNES689T

(Perm req)

Credits: 1-6

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Outreach Secondary MCERT-KNES. Departmental permission required. Students are required to pay a course fee; refer to program materials for details.

CE01	Dena Deglau	Seats (Total: 10)
	Contact instructor or department for details.	

KNES689Y

Credits: 1

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	Barbara Alving	Seats (Total: 30)
Meets January 25, 2016 - March 14, 2016		
	F 11:00am - 12:50pm	SPH 0305
<i>Also offered as EPIB641</i>		

KNES689Z

Credits: 3

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

0101	Ross Miller	Seats (Total: 10)
	Th 5:00pm - 7:30pm	SPH 0305

KNES711 Professional Development and Grantsmanship

Credits: 3 Grading Method: Regular,
Audit

*Restriction: Must be a Doctoral student; and must be in a major in SPHL-School of Public Health.
Credit only granted for: KNES711 or KNES789X. Formerly: KNES789X.*

Enhance continued professional development through an exploration of culture, climate, expectations and mentoring in research I universities. Generate a grant application including the hypothesis, structure, specific aims, background and significance, and submission of a total grant. Grant process and product will be emphasized.

0101	James Hagberg	Seats (Total: 15)
	W 4:00pm - 6:30pm	PLS 1162

KNES786 Capstone Project in Physical Activity and Public Health

Credits: 3 Grading Method: Regular

*Prerequisite: KNES600, EPIB610, EPIB650, HLSA601, HLTH665, MIEH600, and KNES601.
Recommended: KNES602.*

The culminating experience in which the student applies knowledge and skills learned in the MPH program to conduct independent work on a physical activity problem under the supervision of a faculty advisor.

0101	Jennie Phillips	Seats (Total: 5)
	Contact instructor or department for details.	

KNES789 Advanced Projects in Kinesiology

Credits: 1-3 Grading Method: Regular

Advanced projects examining current problems and trends in kinesiology.

Contact department for information to register for this course.

KNES799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

KNES898**Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.**KNES899****Doctoral Dissertation Research**

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.**KORA Korean****Spring 2016****KORA102****Elementary Korean II**

Credits: 3 Grading Method: Regular

*Prerequisite: KORA101; or must have appropriate Foreign Language Placement Test (FLPT) score.**Restriction: Must be a non-Heritage student; and permission of instructor required for new students.**Continued training in elementary spoken and written Korean.*

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 1215
0201	Hyojin Jeong	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	JMZ 2120

KORA202**Intermediate Korean II**

Credits: 3 Grading Method: Regular CORE: HO

*Prerequisite: KORA201; or permission of instructor.**The second stage of an intermediate-level course designed for non-Heritage students. It continues the second year of instruction in the University's two track Korean Program.*

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 9:30am - 10:45am	JMZ 1215

KORA212**Introductory Reading for Speakers of Korean II**

Credits: 3 Grading Method: Regular CORE: HO

*Prerequisite: KORA211; or must have appropriate Foreign Language Placement Test (FLPT) score.**Restriction: Must not have completed four or more years of schooling in Korea.**Continuation of KORA211; grammar, style, usage, and vocabulary of written Korean.*

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 1215

KORA312 Korean for Heritage Speakers, Advanced-Low II

Credits: 3 Grading Method: Regular

*Prerequisite: KORA311; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Not open to students who have completed eight or more years of schooling in Korea.*

Concludes the second year of the Heritage-language instruction in the University's two-track Korean Program.

0101	Younghi Ramsey	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	JMZ 1215

KORA345 Korean Language and Linguistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: KORA102 or KORA211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Credit only granted for: KORA345 and KORA399A.

An exploration of Korean language and society, in particular the role and nature of the alphabet, Korean sounds, lexical and grammatical structures, and usage in today's South Korea.

0101	Samuel Ramsey	Seats (Total: 15)
	MW 3:30pm - 4:45pm	JMZ 1117

KORA398D Special Topics in Korean Studies; Two Koreas: Political Economy of Regional Rivalry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.

The main objective of this course is to provide students with the introductory understanding on the Korean peninsula. While we look at various theoretical and historical explanations, this course will focus on the nature of North and South Korean regional rivalry and its global impacts. We will examine various security issues including North Korean nuclear threat, military alliances, and reunification prospects. In addition, we will discuss several economic issues such as the differential growth paths, South Korea's rapid growth, and recent economic woes in both Koreas.

BL01	Instructor: TBA	Seats (Total: 15)
	TuTh 2:00pm - 3:50pm	JMZ 2117
	Class time/details on ELMs	ONLINE
<i>This is a CIC courseshare course. The instructor, Professor Young-Bae Hwang, is at Ohio State University, but UMD students enroll and receive it at UMD.</i>		

KORA499

Independent Study Korean

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

LARC

Landscape Architecture

Spring 2016

LARC120

Digital Fundamentals

Credits: 2 Grading Method: Regular

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and must be in Landscape Architecture program.

An introduction to fundamental computer tools and techniques commonly used in design communication and landscape architecture practice. Non-drafting computer tools will be used to orient basic digital image capture, manipulation, and presentation formatting.

0101	Christopher Ellis	Seats (Total: 20)
	Tu 2:00pm - 2:50pm	PLS 2137
	Tu 3:00pm - 4:40pm	PLS 2137 Lab
0102	Christopher Ellis	Seats (Total: 20)
	Th 2:00pm - 2:50pm	PLS 2137
	Th 3:00pm - 4:40pm	PLS 2137 Lab

LARC160

Introduction to Landscape Architecture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences.

0101	Dennis Nola	Seats (Total: 19)	
	MW 10:00am - 10:50am	PLS 1140	
	M 11:00am - 11:50am	PLS 1111	Discussion
0102	Dennis Nola	Seats (Total: 19)	
	MW 10:00am - 10:50am	PLS 1140	
	M 11:00am - 11:50am	PLS 1113	Discussion
0103	Dennis Nola	Seats (Total: 19)	
	MW 10:00am - 10:50am	PLS 1140	
	M 5:00pm - 5:50pm	PLS 1115	Discussion
0104	Dennis Nola	Seats (Total: 18)	
	MW 10:00am - 10:50am	PLS 1140	
	M 5:00pm - 5:50pm	PLS 1146	Discussion

LARC221

Digital Design Tools

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: LARC120 and LARC141. Recommended: LARC240 and LARC265. Restriction: Sophomore standing or higher; and must be in Landscape Architecture program.

The development and application of computing skills as used by the landscape architecture profession. This Computer-Aided Design and Drafting (CADD) course develops computer drafting using a variety of software programs. It also introduces students to Geographic Information Systems (GIS) mapping technologies.

0101	Arlie Ison	Seats (Total: 15)	
	TuTh 11:00am - 12:15pm	PLS 2137	
	TuTh 12:30pm - 1:45pm	PLS 2137	Lab

LARC240

Graphic Communication and Design Studio

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LARC141 and LARC263. Corequisite: LARC221 and LARC265. Restriction: Sophomore standing or higher; and must be in Landscape Architecture program.

Exploration of graphic presentation techniques and original concept development for landscape architecture planning and design.

0101	Byoung-Suk Kweon	Seats (Total: 15)	
	MW 2:00pm - 2:50pm	PLS 2152	
	MW 3:00pm - 4:50pm	PLS 2152	Lab

LARC263 History of Landscape Architecture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

A survey of landscape architecture history from the ancient Western civilizations to the twentieth century with consideration of parallel developments in the Eastern World, European Africa and the Americas.

0101	Kelly Cook	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	PLS 1119	
	<i>For LARC majors only.</i>		
0102	Kelly Cook	Seats (Total: 20)	
	TuTh 9:30am - 10:45am	PLS 1119	

LARC321 Landscape Structures and Materials

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: LARC320; and LARC340. Restriction: Must be in Landscape Architecture program.

An examination of the use, properties, and detailing of materials used in landscape construction. The use and design of structures in the landscape.

0101	David Myers	Seats (Total: 15)	
	TuTh 9:30am - 10:45am	PLS 1111	
	Th 11:00am - 12:15pm	PLS 2150	Lab

LARC341 Regional Design Studio

(Perm req)

Credits: 5 Grading Method: Regular

Prerequisite: LARC320; and LARC340. Restriction: Junior standing or higher; and must be in Landscape Architecture program.

An examination of the landscape architect's role within the interdisciplinary regional design field incorporating GIS technologies, spatial modeling, and the regional design process.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Christopher Ellis	Seats (Total: 15)	
	MW 1:00pm - 1:50pm	PLS 2150	
	MW 2:00pm - 4:50pm	PLS 2150	Lab

LARC461 People and the Environment

Credits: 3 Grading Method: Regular

Repeatable to 3 credits if content differs. Credit only granted for: LARC489K or LARC461. Formerly: LARC489K.

Focus is placed on human and environmental interactions. Students will look at both natural and built environments and how they influence human health and well-being. Many environmental settings will be examined. These include hospitals, public housing neighborhoods, school settings, retirement communities, transportation corridors and green spaces. We will also explore how racial and socio-economic factors affect living and working environmental conditions. Ultimately, students will be using this knowledge to create environments that support individuals, families and various community groups' health and well-being.

0101	Byoung-Suk Kweon	Seats (Total: 20)	
	M 10:00am - 12:50pm	PLS 1164	

LARC471 Capstone Studio: Community Design

(Perm req)

Credits: 5 Grading Method: Regular, CORE: CS
Pass-Fail, Audit

Prerequisite: LARC440; and LARC470. Restriction: Senior standing; and must be in Landscape Architecture program.

A capstone experience that emphasizes the integration of critical thinking skills and methodologies introduced throughout the landscape architecture curriculum. Students apply design and analysis methodologies, evaluate alternative solutions, involve community residents and engage in final design development, using the master plan and site design process, report writing, and oral and graphic presentations. Final presentations are open to the university and the community.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Victoria Chanse	Seats (Total: 15)	
	MW 2:00pm - 2:50pm	PLS 2148	
	MW 3:00pm - 5:50pm	PLS 2148	Lab

LARC489E Special Topics in Landscape Architecture; Planting Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

0101	Ann Anderson	Seats (Total: 10)
	F 9:00am - 11:50am	PLS 2137

LARC499 Independent Studies in Landscape Architecture

(Perm req)

Credits: 1-4 Grading Method: Regular,
Pass-Fail, Audit

Independent studies in landscape architecture including field, studio or library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC641 Graduate Studio II

(Perm req)

Credits: 5 Grading Method: Regular,
Audit

Prerequisite: LARC640. Corequisite: LARC720. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Principles and techniques of site analysis, environmental design and site development for human settlements and interaction with natural systems. Will expand analytical skills through complex site design problems. Students will research, observe and apply low impact development and sustainable practices, become familiar with building and landscape types by investigating alternative arrangements on the land, and understand user needs and design for populations with a range of abilities. Will support LEED and sustainable practices and acknowledge the requirements of public health, safety, and welfare.

0101	Dennis Nola	Seats (Total: 10)
	TuTh 2:00pm - 2:50pm	PLS 1142
	TuTh 3:00pm - 5:50pm	PLS 1142 Lab

LARC648 Graduate Studio IV

(Perm req)

Credits: 5 Grading Method: Regular,
Audit

An exploration that will focus on issues in landscape planning and design such as campus planning, urban housing and recreation, and neighborhood preservation, restoration and development. Projects will emphasize the value of responsible academic and civic landscapes, the place of historic resources in contemporary life, and innovative solutions for the integration of past and future landscapes.

0101	Meghan Spigle	Seats (Total: 10)	
	TuTh 1:00pm - 1:50pm	PLS 2154	
	TuTh 2:00pm - 4:50pm	PLS 2154	Lab

LARC663 Landscape and Garden History

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

History of garden making and its evolution into design practice. Students will become familiar with narratives of garden art and landscape architecture through the study of selected key sites, designers, and visual written sources. A focus on gardens' past and afterlife; the nature of primary sources (both built and written), and how these can be evaluated and used. Primary sources will be drawn from several disciplines and include a wide array of genres: treatises, epistolary exchanges, tax returns, novels, poems, paintings and drawings.

0101	Kelly Cook	Seats (Total: 10)	
	W 2:00pm - 4:50pm	PLS 1111	

LARC671 Landscape Architecture Research Methods

Credits: 3 Grading Method: Regular,
Audit

Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.

Investigation and discussion of broad scope of research methods and the development of landscape design and planning research techniques and skills. The urban environment will be viewed primarily as a social and psychological environment, with concern for who uses these environments and the conflicts that can arise between user groups.

0101	Victoria Chanse	Seats (Total: 15)	
	W 10:00am - 12:50pm	PLS 1172	

LARC699 Independent Studies in Landscape and Architecture

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

(Perm req)

Prerequisite: LARC640; or permission of AGNR-Plant Science & Landscape Architecture department.
Corequisite: LARC641.

Techniques for prediction of alterations in social and natural processes brought about by human use of the land; application of such assessments to environmental management; basic methods of landscape alteration, augmentation, and control including grading, drainage, road and trail design, and stormwater management.

0101	Joseph Burkhardt	Seats (Total: 10)
	W 8:00am - 9:50am	PLS 1142
	W 10:00am - 11:50am	PLS 1142 Lab

(Perm req)

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

Spring 2016

LASC235

Also offered as: SPAN235, PORT235. Credit only granted for: LASC235, SPAN235, or PORT235.

Major issues shaping Latin American and Caribbean societies including the changing constructions of race, ethnicity, gender and class as well as expressions of popular cultures and revolutionary practices. A continuation of LASC/PORT/SPAN234, but completion of 234 is not a prerequisite. Taught in English.

0101	Reid Gustafson	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMZ 1122

0201	Lucinda Grinnell	Seats (Total: 35)
	MW 11:00am - 12:15pm	KEY 0116

LASC235H Issues in Latin American Studies II

Credits: 3 Grading Method: Regular CORE: HO, D General Education: DSHS, DSHU, DVUP

Also offered as: SPAN235, PORT235. Credit only granted for: LASC235, SPAN235, or PORT235.

Major issues shaping Latin American and Caribbean societies including the changing constructions of race, ethnicity, gender and class as well as expressions of popular cultures and revolutionary practices. A continuation of LASC/PORT/SPAN234, but completion of 234 is not a prerequisite. Taught in English.

0101	Reid Gustafson	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	JMZ 1122

LASC248A Special Topics in Latin American Studies; Villains, Heroes, and Deviants: Representations of the Bandit in Latin American Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

Also offered as PORT229A and SPAN229A. Credit granted for LASC248A, PORT229A, or SPAN229A. Exploration of the diverse roles played by the bandit in Latin American fiction, film, photography, and other media; and of the historical, political, and social contexts that have contributed to their popular place in the cultural imagination. Taught in English.

0101	Thayse Lima	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0205

LASC251 Latin America Since Independence

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

Also offered as: HIST251. Credit only granted for: LASC251 or HIST251.

Introductory survey of the history of Latin America from the era of independence (c. 1810-1825) through the early 1980s. Major themes include independence and sovereignty, postcolonialism and neocolonialism, nation- and state-building, liberalism, citizenship, economic development and modernization, social organization and stratification, race and ethnicity, gender relations, identity politics, reform and revolution, authoritarianism and democratization, and inter-American relations.

0101	Karin Roseblatt	Seats (Total: 40)
	MW 2:00pm - 3:15pm	KEY 1117

LASC286 Internship in Latin American/Caribbean Studies

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail

Prerequisite: LASC234, SPAN234, LASC235, SPAN235, LASC250, HIST250, LASC251, or HIST251; and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and cannot have more than 60 credits total. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director and students must secure an appropriate faculty mentor to supervise the internship course.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of how the experience ties into their major field of study.

Contact department for information to register for this course.

LASC348E Special Topics in Latin American Studies; Caribbean Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics to be announced when offered.

Additional Note: Also offered as ENGL362. Credit granted for ENGL362 or LASC348E.

0101	Merle Collins	Seats (Total: 29)
	TuTh 11:00am - 12:15pm	TWS 0221

LASC348R Special Topics in Latin American Studies; Recovering Oral Histories: Caribbean and Latin American Communities in the USA and Britain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics to be announced when offered.

Also offered as ENGL361. Credit granted for ENGL361 or LASC348R. Project-based course to record oral histories of Caribbean American and Latin American communities in the Washington area. Interview and oral history techniques; recording and videotaping oral histories; transcribing and writing stories as oral histories.

0101	Merle Collins	Seats (Total: 10)
	TuTh 9:30am - 10:45am	TWS 3250

LASC448I Special Topics in Latin American Studies; Latin American and Caribbean Thought

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as PHIL408L. Credit will be granted for LASC448I or PHIL 408L.

0101	James Maffie	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 2122

LASC448Q Special Topics in Latin American Studies; Amazon Through Film

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as ANTH462. Credit will be granted for ANTH462, ANTH468D, or LASC448Q.

0101	Janet Chernela	Seats (Total: 20)
	M 6:00pm - 8:45pm	WDS 1114

LASC448W Special Topics in Latin American Studies; Doing Business in Nicaragua: Microfinance and Social Value Creation

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Contact department for information to register for this course.

LASC448X Special Topics in Latin American Studies; Art and Sexuality in Latin America

Credits: 3 Grading Method: Regular

Intensive study of a selected topic related to Latin American Studies.

Also offered as LGBT448N and WMST498R. Credit granted for LASC448X, LGBT448N, or WMST498R. Latin Americans have historically used transgressive art and literature to critique and resist gender and sexual norms. Focusing on Mexico, Brazil, Argentina, Cuba, and Nicaragua, this interdisciplinary course will examine contemporary and historical portrayals of sexuality and non-normative gender through the lenses of film, visual art, literature, and music.

0101	Lucinda Grinnell	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1224

LASC458X Senior Capstone Course in Latin American Studies; Art and Sexuality in Latin America

Credits: 3 Grading Method: Regular

Capstone course for advanced students in the Latin American Studies Certificate Program or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

Capstone course for advanced students in the Latin American Studies Certificate Program or other students with appropriate preparation. Special topic: Art & Sexuality in Latin America. Latin Americans have historically used transgressive art and literature to critique and resist gender and sexual norms. Focusing on Mexico, Brazil, Argentina, Cuba, and Nicaragua, this interdisciplinary course will examine contemporary and historical portrayals of sexuality and non-normative gender through the lenses of film, visual art, literature, and music. Students will be required to write a capstone research paper related to write a capstone research paper related to the theme of the course.

0101	Lucinda Grinnell	Seats (Total: 3)
	MWF 1:00pm - 1:50pm	JMZ 1224

LASC486 Internship in Latin American/Caribbean Studies

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Student must have completed at least two LASC courses, one of which must be a required/core course (LASC/SPAN234, LASC/SPAN235, LASC/HIST250, or LASC/HIST251); and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Additional information: The course is primarily intended for students seeking the Certificate in Latin American Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director, and students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available.

Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LASC Certificate. Students submit a final written report of their experience, including critical analysis of the institutional relevance to their major field of study and to Latin American Studies. Students will also be asked to give an oral presentation.

Contact department for information to register for this course.

LATN

Latin

Spring 2016

LATN101

Elementary Latin I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Additional information: A student who has two units of Latin in high school may register for LATN101 for the purposes of review, but ordinarily not for credit.

0101	Morgan Palmer	Seats (Total: 25)	
	MWF 10:00am - 10:50am	HBK 0105	
	W 9:00am - 9:50am	HBK 0105	Discussion

LATN201 Intermediate Latin

Credits: 4 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: Must have completed LATN102 at University of Maryland, College Park; or permission of ARHU-Classics department. Formerly: LATN203.

0101	Morgan Palmer	Seats (Total: 15)	
	TuTh 11:00am - 12:50pm	MMH 1218	

LATN303 Petronius

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Reading and analysis of Petronius' Satyricon with an emphasis on the literary climate of the Neronian Age and on the emergence of the novel as a literary genre. Readings are in Latin.

0101	Gregory Staley	Seats (Total: 15)	
	TuTh 3:30pm - 4:45pm	MMH 1218	

LATN488K Latin Readings; Seneca

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

0101	Gregory Staley	Seats (Total: 10)	
	W 5:00pm - 7:40pm	MMH 1218	

LATN488P Latin Readings; Latin Pedagogy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.

Also offered as LATN640. Credit granted for LATN488P or LATN640. Learning styles and abilities in the Latin language classroom; textbooks and workbooks for teaching Latin; integrating Roman culture into language study; computer and technological resources for Latin Language instruction; using videos and feature films in Latin and classical civilization classes; the articulation between secondary school and college-level Latin study. Meets in a series of five day-long Saturday workshops and culminates in an outreach program for secondary school Latin students. Recommended for teachers, graduate students and undergraduates planning to teach Latin.

0101	Judith Hallett, Eric Adler	Seats (Total: 10)
	Sa 9:00am - 3:00pm	MMH 1304

LATN499 **Independent Study in Latin Language and Literature**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

LATN640 **Latin Pedagogy**

Credits: 3 Grading Method: Regular,
Audit

Learning styles and abilities in the Latin language classroom; textbook and workbooks for teaching Latin; integrating Roman culture into language study; computer and technological resources for Latin Language instruction; using videos and feature films in Latin and classical civilization classes; the articulation between secondary school and college-level Latin study. Meets in a series of five day-long Saturday workshops and culminates in an outreach program for secondary school Latin students. Recommended for teachers, graduate students and undergraduates planning to teach Latin.

Also offered as LATN488P. Credit granted for LATN488P or LATN640.

0101	Judith Hallett, Eric Adler	Seats (Total: 10)
	Sa 9:00am - 3:00pm	MMH 1304

LATN688K **Special Topics in Latin Literature; Seneca**

Credits: 3 Grading Method: Regular,
Audit

0101	Gregory Staley	Seats (Total: 10)
	W 5:00pm - 7:40pm	MMH 1218

LATN699 **Independent Studies in Latin Literature**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Contact department for information to register for this course.

LATN799

Master's Thesis Research

(Perm req)

Credits: 1-6

Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

LBSC

Library Science

Spring 2016

LBSC602

Serving Information Needs

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.

An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.

0101	Beth St Jean	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0108
SG01	Ursula Gorham-Oscilowski	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC622

Information and Universal Usability

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of INFO-College of Information Studies.

Information services and technologies to provide equal experiences and outcomes to all users. Laws, standards, approaches, component concepts, access needs, and technologies in relation to physical and online information environments.

SG01	Mega Subramaniam	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC631

Achieving Organizational Excellence

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.

Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.

SG01	Bruce Dearstyne	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC644 Collection Development

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC 644 or LBSC 708G. Formerly: LBSC 708G.

Activities through which library collections are systematically developed and managed are explored, especially the formulation and implementation of written collection development policies. Other specific topics include identification of user needs; collection evaluation; fund allocation among competing departments, subjects, and/or media; selection methods; intellectual freedom; storage alternatives; and cooperative collection development.

SG01	Roberta Astroff	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC647 Children's Services in the Public Library

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies.

Public library services for children from birth to 12 years of age. Developmental characteristics and information needs of children. Programming and collection development. Management of children's services, including planning, staffing, and advocacy.

0101	Christine Kamt	Seats (Total: 30)
	Th 6:00pm - 8:45pm	HBK 0115

LBSC671 Creating Information Infrastructures

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.

Foundations of acquiring and managing collections, information structures, indexing and discovery systems needed by information professionals. An introduction to the theoretical concepts, trends, systems, and technologies central to the information field.

0101	Nathan Putnam	Seats (Total: 30)
	W 2:00pm - 4:45pm	HBK 2119
SG01	Erik Mitchell	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC702 User Instruction

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of INFO-College of Information Studies.

Critical analysis of the rationale, content, and processes of user instruction in library and information settings.

0101	Elizabeth Larson	Seats (Total: 30)
	W 6:00pm - 8:45pm	HBK 0115

LBSC703 Field Study in Archives, Records and Information Management

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC605, LBSC650, LBSC670, and LBSC690; and must have completed 12 additional credits. Restriction: Permission of INFO-College of Information Studies.

Supervised experience in archival, records, or information management programs in organization and institutions. Application of theories, methods, and approaches to effectively carry out work and meet program goals.

0101	Kenneth Heger	Seats (Total: 25)
	Th 6:00pm - 8:45pm	HBK 0103

LBSC707 Field Study in Library Service

Credits: 3 Grading Method: Regular, Audit

Prerequisite: LBSC601, LBSC650, LBSC670, and LBSC690; and must have completed 12 additional credits. Restriction: Permission of INFO-College of Information Studies.

Supervised experience within library operations and/or the opportunity to perform a study to solve a specific problem in a suitable library or other information agency.

SG01	Rocco Debonis	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision.

Signed independent study form must be presented to CLIS Admissions Office.

Contact department for information to register for this course.

LBSC723 Advocacy and Support for Information Services

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of INFO-College of Information Studies.

Role and influence of government, foundations, associations, and other organizations in supporting and setting the agenda for information services of all types. Role of information professionals in demonstrating advocacy, fund-raising, public relations, lobbying, and seeking external support.

0101	Maureen Sullivan, Lynne Bradley	Seats (Total: 20)
	M 6:00pm - 8:45pm	HBK 0108

LBSC741 Seminar in School Library Administration

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LBSC640; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Development, management, and evaluation of school library programs at all levels.

SG01	Natalie Taylor	Seats (Total: 20)
	Contact instructor or department for details.	

LBSC744 Internship in School Libraries

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LBSC640, LBSC742, and LBSC741; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Opportunities to observe and participate in the operation of school libraries at the elementary and secondary levels under the supervision of certified school librarians.

SG01	Mega Subramaniam	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC785 Documentation, Collection, and Appraisal of Records

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LBSC605 or INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.

Development of documentation strategies and plans; collecting policies to guide programs in acquiring records; theories and techniques for appraising records to identify those with continuing value.

0101	Ricardo Punzalan	Seats (Total: 30)
	M 6:00pm - 8:45pm	HBK 4113

LBSC791 Designing Principled Inquiry

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LBSC671, LBSC602, and LBSC631; and additional 15 credits in LBSC course work. Restriction: Permission of INFO-College of Information Studies.

Critical analysis of roles of information professions and institutions in integrating theory, methods, practice, policies, and values of the field, and applying them to the design of future information systems and services.

0101	Ursula Gorham-Oscilowski	Seats (Total: 25)
	Tu 6:00pm - 8:45pm	HBK 0103

SG01	Ursula Gorham-Oscilowski	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LBSC799

Master's Thesis Research

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

LGBT

Lesbian Gay Bisexual Transgender Studies

Spring 2016

LGBT200

Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: SB, D

General Education: DSHS,
DVUP

Credit only granted for: LGBT200.

An interdisciplinary study of the historical and social contexts of personal, cultural and political aspects of LGBT life. Sources from a variety of fields, such as anthropology, history, psychology, sociology, and women's studies, focusing on writings by and about LGBT people.

0101	Avery Dame	Seats (Total: 40)
	MW 12:30pm - 1:45pm	SQH 1121
0201	Alexis Lothian	Seats (Total: 40)
	TuTh 9:30am - 10:45am	TYD 1114

LGBT265

Lesbian, Gay, Bisexual, and Transgender Literatures

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: HL, D

General Education: DSHU,
DVUP

Restriction: Must not have completed ENGL265. Also offered as: ENGL265. Credit only granted for: ENGL265 or LGBT265.

Exploration of literary and cultural expressions of sexuality and gender. Study of a range of historical periods and literary genres, such as essay, poetry, novel, drama, film. Topics include sexual norms and dissidence, gender identity and expression, the relationship between aesthetic forms and sexual subjectivity. Interpretation of texts particularly through the lens of queer theory. Examination of how sex and gender intersect with other forms of difference, including race and class.

0101	Nicholas Slaughter	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	SQH 1105

0201	Virginia Butler	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	SQH 1105

LGBT359A Special Topics in Lesbian, Gay, Bisexual, and Transgender Literatures; American Autobiographics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Study of selected writers or particular themes in Lesbian, Gay, Bisexual and Transgender literatures.

Also offered as ENGL359A. Prerequisite: Two lower-level English courses, at least one in literature; or permission of ARHU-English department. Repeatable to 9 credits if content differs.

0101	Martha Nell Smith	Seats (Total: 29)
	MW 5:00pm - 6:15pm	TWS 0205

LGBT386 Lesbian, Gay, Bisexual, and Transgender Community Organization Internship

(Perm req)

Credits: 3-6 Grading Method: Regular, General Education: DSSP,
Pass-Fail, Audit DVCC

Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.

Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.

Contact department for information to register for this course.

LGBT448B Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Queer Space and Media Cultures

Credits: 3 Grading Method: Regular, , D General Education: DVUP
Pass-Fail, Audit

In-depth study of particular themes and issues in LGBT studies.

Examines how the lives of sexual minorities have been shaped by media technologies and material geographies. Possible topics include: public sex and pornography; queer gentrification, race, and visual culture; medical tourism and body modification; transnational migration and global queer cinema.

0101	Roberto Manuel Benedicto	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0208

LGBT448N Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Art and Sexuality in Latin America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Also offered as LASC448X and WMST498R. Credit granted for LASC448X, LGBT448N, or WMST498R. Latin Americans have historically used transgressive art and literature to critique and resist gender and sexual norms. Focusing on Mexico, Brazil, Argentina, Cuba, and Nicaragua, this interdisciplinary course will examine contemporary and historical portrayals of sexuality and non-normative gender through the lenses of film, visual art, literature, and music.

0101	Lucinda Grinnell	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1224

LGBT448Y Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Erotics, Dickinson, and American Women Poets

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVUP

In-depth study of particular themes and issues in LGBT studies.

Also offered as ENGL439D and WMST498Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 0214

LGBT488D Seminar in Lesbian, Gay, Bisexual, and Transgender Studies; Queer Theory and the Politics of Death

(Perm req)

Credits: 3 Grading Method: Regular

Developments in theories and methods of LGBT Studies, with emphasis upon interaction between the humanities and the social sciences in the elaboration of this interdisciplinary area of scholarship.

Restriction: permission of department. Examines debates in queer theory that address the relationship of sex, eroticism, non-normativity, and death. Possible topics include: the death drive; HIV/AIDS; sadomasochism; anti-queer violence; sex, war, and terror.

0101	Roberto Manuel Benedicto	Seats (Total: 15)
	Tu 4:00pm - 6:30pm	KEY 0107

LGBT499 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Directed research and analysis in LGBT Studies on a topic selected by the student.

Contact department for information to register for this course.

LING

Linguistics

Spring 2016

LING200

Introductory Linguistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: HESP120 or LING200. Additional information: Does not count toward the Linguistics major and does not fulfill prerequisite requirements for all upper-level courses.

An exploration of the nature of human language, designed for non-majors Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Additional topics may include: semantics, pragmatics, social aspects of language, dialects, language change, acquisition, writing systems, typology, language universals, comparison with other communication systems, etc.

0101	Tonia Bleam MW 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 30) MMH 1400 LEF 1201 Discussion
0104	Tonia Bleam MW 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 30) MMH 1400 MTH 0101 Discussion
0105	Tonia Bleam MW 2:00pm - 2:50pm Th 2:00pm - 2:50pm	Seats (Total: 30) MMH 1400 EGR 2116 Discussion
0107	Tonia Bleam MW 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 30) MMH 1400 LEF 1201 Discussion

LING240

Language and Mind

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: DSHU

Additional information: Required for Linguistics majors and recommended for students in related fields.

The study of language as a cognitive phenomenon. Focus on mastering the concepts and technical skills required for further courses in linguistics. Ways of representing people's knowledge of their native language, ways in which that knowledge is attained naturally by children, and how it is used in speaking and listening. Additional topics may include: animal communication, language and the brain, language and thought.

0101	Margaret Antonisse	Seats (Total: 50)
	MWF 10:00am - 10:50am	LEF 2208

LING248 **Introduction to Laboratory Research in Linguistics**

(Perm req)

Credits: 3 Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.

Prerequisite: Permission of ARHU-Linguistics department.

0101	Jeffrey Lidz	Seats (Total: 15)
	F 12:00pm - 1:30pm	MMH 1108B
	Contact instructor or department for details.	

LING311 **Syntax I**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING240.

Basic concepts, analytical techniques of generative syntax, relation to empirical limits imposed by viewing grammars as representations of a component of human mind. Aspects of current theories.

0101	Tonia Bleam	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	HBK 0103

LING312 **Syntax II**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING311.

Continuation of LING311. Development of theories of syntax. Criteria for revising theories. Methods and strategies of scientific efforts to explain natural phenomena.

0101	Omer Preminger	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PLS 1168

LING321 Phonology I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING240.

Properties of sound systems of human languages, basic concepts and analytical techniques of generative phonology. Empirical limits imposed by viewing grammars as cognitive representations. Physiological properties and phonological systems; articulatory phonetics and distinctive feature theory.

0101	Margaret Antonisse	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	SYM 0209

LING322 Phonology II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING321.

Continuation of LING321. Further investigation of phonological phenomenon and phonological theory. Revising and elaborating the theory of the phonological representation; interaction of phonology and morphology.

0101	William Idsardi	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	BPS 1232

LING410 Grammar and Meaning

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of instructor; or LING311.

The basic notions of semantic theory: reference, quantification, scope relations, compositionality, thematic relations, tense and time, etc. The role these notions play in grammars of natural languages. Properties of logical form and relationship with syntax.

0101	Paul Pietroski	Seats (Total: 25)
	MW 10:00am - 11:15am	MMH 1108B

LING419H**Topics in Syntax; Syntax and Acquisition of Ellipsis and Islands**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics vary.

Prerequisite: LING311 An experimental investigation of two prominent domains of syntactic inquiry: islands and ellipsis. Development of syntactic analyses. Experimental methods; examination of previous psycholinguistic studies, with a specific focus on first language acquisition. Final project involves developing a novel experiment proposal as a class, building on the body of literature discussed in class.

0101	Michael Feters	Seats (Total: 10)
	MW 2:00pm - 3:15pm	WDS 1127

LING440**Grammars and Cognition**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING321 and LING311.

Relationship between the structure, development and functioning of grammars and the structure, development and functioning of other mental systems. Interpretations of experimental and observational work on children's language, aphasia, speech production and comprehension.

0101	Ellen Lau	Seats (Total: 20)
	MW 4:00pm - 5:15pm	JMZ 1226

LING448**Advanced Laboratory Research in Linguistics**

(Perm req)

Credits: 2-3 Grading Method: Regular

Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Conducting a research project in laboratory linguistics as part of a team creating original research relevant to current issues in linguistics.

Prerequisite: Permission of ARHU-Linguistics department.

0101	Jeffrey Lidz	Seats (Total: 15)
	F 12:00pm - 1:30pm	MMH 1108B
	Contact instructor or department for details.	

LING449R**Topics in Psycholinguistics; Acquisition of Semantics and Pragmatics**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.

Investigation of the acquisition and processing of presupposition(as compared to assertion). Examination of basic properties and specific triggers of presupposition. Reading previous psycholinguistic research. Group corpus study acquisition of different triggers. Final project in which students extend one of the group corpus studies. Prerequisite: 311 . Some experimental background is recommended (e.g., LING440, LING444, PSYC300, HESP300, HESP400, or psycho-ling lab experience).

0101	Rachel Dudley	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	PLS 1168

LING499 Directed Studies in Linguistics

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING499C Directed Studies in Linguistics; Teaching Assistantship

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

0101	Margaret Antonisse	Seats (Total: 4)
	Contact instructor or department for details.	

LING499G Directed Studies in Linguistics; Second Language Acquisition: Theory, Research, and Practice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Prerequisite: LING200, LING240, PSYC200, PSYC221, or PSYC354. Also offered as SLAA410. Credit granted for SLAA410 or LING499G. Introduces vibrant and expanding branch of language science and cognitive science: theory, research and practice in SLA. Students apply what they learn to practical issues ranging from learning languages as an adult to societal problems involving second languages and dialects.

0101	Michael Long	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 0118

LING499H

Directed Studies in Linguistics

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Contact department for information to register for this course.

LING499J

Directed Studies in Linguistics; Computational Approaches in Language Science

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Independent study or research on language under the supervision of a faculty member.

Also offered as CMSC289J and MLSC410. Credit granted for LING499J, MLSC410, or CMSC289J. Interdisciplinary survey of areas of language science where computational methods play a major role. Topics include natural language processing, automatic speech recognition, models of human language processing, and models of human language disorders. Students are expected to have previously taken at least two courses in either language science or computer science, but need not have background in both.

0101	Naomi Feldman	Seats (Total: 13)
	TuTh 9:30am - 10:45am	JMZ 3120

LING611

Issues in Syntax

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: LING610.

Topics of current theoretical interest examined through data from a variety of languages.

0101	Norbert Hornstein	Seats (Total: 15)
	Tu 2:00pm - 5:00pm	MMH 1108B

LING621

Issues in Phonology

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: LING620.

Topics of current interest in phonological theory examined through data from several languages.

0101	William Idsardi	Seats (Total: 15)
	TuTh 9:30am - 10:45am	MMH 1108B

LING641 Issues in Psycholinguistics

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: LING640.

Topics of current interest in psycholinguistics, including both theoretical approaches and experimental and analytical issues in language acquisition, language processing, and neurolinguistics.

0101	Colin Phillips	Seats (Total: 15)
	MW 12:00pm - 1:30pm	MMH 1108B

LING659M Structure of a Language; Mayan Languages

Credits: 3 Grading Method: Regular,
 Audit

Detailed examination of a particular language or language family.

0101	Omer Preminger, Maria Polinsky	Seats (Total: 15)
	M 3:00pm - 6:00pm	MMH 1108B

LING661 Issues in Semantics

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: LING660; or permission of ARHU-Linguistics department.

A second course in semantic theory. Application of basic concepts and methods to topics of current theoretical interest.

0101	Valentine Hacquard	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	MMH 1108B

LING689 Independent Study

Credits: 1-3 Grading Method: Regular,
 Audit

Independent studies in grammatical theory.

Contact department for information to register for this course.

LING689T Independent Study; Pedagogy for Linguistics

Credits: 1 Grading Method: Regular

Independent studies in grammatical theory.

Designed for novice instructors to collaboratively explore and evaluate methodologies that support teaching improvement and learner achievement.

0101	Tonia Bleam	Seats (Total: 6)
Contact instructor or department for details.		

LING698 Directed Study; Seminar

Credits: 1-3 Grading Method: Regular,
Audit

0101	Howard Lasnik	Seats (Total: 2)
	F 2:00pm - 4:00pm	KEY 0102

LING773 Computational Linguistics II

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LING723 or CMSC723; or permission of instructor. Also offered as: CMSC773. Formerly: LING647.

Natural language processing with a focus on corpus-based statistical techniques. Topics include: stochastic language modeling, smoothing, noisy channel models, probabilistic grammars and parsing; lexical acquisition, similarity-based methods, word sense disambiguation, statistical methods in NLP applications; system evaluation.

Also offered as INST728C. Credit granted for LING773 or INST728C.

0101	Philip Resnik	Seats (Total: 30)
	W 1:30pm - 4:00pm	WDS 0104

LING798 Research Papers in Linguistics

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING799

Master's Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

LING819C

Seminar in Syntactic Theory; Quantification and Anaphora

Credits: 3 Grading Method: Regular,
Audit

Current topics in research on syntactic theory.

0101	Howard Lasnik	Seats (Total: 15)
	W 3:00pm - 6:00pm	MMH 1108B

LING879

Seminar in Semantics; Seminar in Semantics:

Credits: 3 Grading Method: Regular,
Audit

Current topics in research in semantics.

0101	Alexander Williams, Jeffrey Lidz, Valentine Hacquard	Seats (Total: 15)
	W 9:00am - 12:00pm	MMH 1401G

LING889

Directed Research

Credits: 1-8 Grading Method: Regular,
Audit

Contact department for information to register for this course.

LING895

Doctoral Research Paper

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

LING896

Research Paper in Minor Area

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: LING895.

This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.

Contact department for information to register for this course.

LING898

Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

LING899

Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MAIT

**Masters in the Mathematics of
Advanced Industrial Tech**

Spring 2016

MAIT679A

Special Topics in Mathematics of Advanced Industrial Technology

Credits: 3 Grading Method: Regular,
Audit

Special topics courses are intended to expose students to the latest developments in mathematical applications. As such, the content will vary depending on the instructor and the current state-of-the-art. 679 will appear with a letter appended to distinguish different topics. New 679 courses will be added as areas of interest arise.

Contact department for information to register for this course.

MAIT699

Independent Masters Project

Credits: 1-3 Grading Method: Regular,
Audit

This course allows students to apply advanced mathematical methods to practical, real-world problems. Projects are supervised individually by faculty members from the MAIT Program. The project's nature is flexible and determined jointly by the student and supervisor. A detailed final report must be prepared by the student and approved by the supervisor.

0101	John Benedetto	Seats (Total: 5)
	Contact instructor or department for details.	
0102	Wojciech Czaja	Seats (Total: 1)
	Contact instructor or department for details.	
0501	John Benedetto	Seats (Total: 10)
	Contact instructor or department for details.	
0902	Wojciech Czaja	Seats (Total: 10)
	Contact instructor or department for details.	

2911	Andrew Kebo	Seats (Total: 5)
Contact instructor or department for details.		

MATH Mathematics Spring 2016

MATH003 Developmental Mathematics

Credits: 3 Grading Method: Sat-Fail

A review of Intermediate High School Algebra intended for students preparing for one of the credit bearing Fundamental Studies Math Courses. It is taught in special computer labs using a self-paced computer program. The curriculum will be geared toward the student's level of algebra skills and eventual goals. There is a special fee for the course that may be applied in addition to the regular tuition charge. Students should refer to the schedule of classes for details on fees as they apply to a particular semester. The course does not carry any credit toward any degree at the University. The course is repeatable. Topics will be chosen from exponents, polynomials, linear equations, quadratic equations as well as polynomial, rational, exponential and logarithm functions and elementary probability or statistics, depending on the student.

Students must pay a special math fee.

0601	Colleen Terpos	Seats (Total: 22)
	TuTh 8:00am - 10:45am	CEN 0200
0602	Colleen Terpos	Seats (Total: 22)
	TuTh 8:00am - 10:45am	PHY 4220
0701	Colleen Terpos	Seats (Total: 22)
	TuTh 11:00am - 1:45pm	CEN 0200
0702	Colleen Terpos	Seats (Total: 23)
	TuTh 11:00am - 1:45pm	PHY 4220

MATH 010, MATH 011, MATH 013 and MATH 015 are preparation courses for MATH 110, MATH 111, MATH 113 and MATH 115 respectively and meet only for the first 5 weeks of the semester. Special sections of MATH 110, MATH 111, MATH 113 and MATH 115 will begin at this point and the student will automatically be enrolled in the course provided he/she passes the Placement Exam for that course at the end of the 5 week period. If the Placement Exam is not passed at this point, the student will be placed in MATH 003. There will be a fee for these courses, the same as for MATH003. For the students who move into MATH 003 from MATH 010, MATH 011, MATH 013 or MATH 015, no new fee will be charged.

MATH010 Algebra for MATH 110

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH110. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH110, the same semester, which also meets 5 days per week. Continuation in MATH110 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include linear equations, linear inequalities, operations on polynomials, factoring, solutions of quadratic equations, as well as exponential and logarithm functions. MATH010 does not carry any credit toward any degree at the University, nor is it graded. It leads to either MATH110 or MATH003, both of which are graded.

1201	Ben Bezejouh	Seats (Total: 22)
	MTuWThF 12:00pm - 12:50pm	JMP 3202

MATH011

Algebra for MATH 111

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH111. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH111, the same semester, which also meets 5 days per week. Continuation in MATH 111 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential and logarithm functions, Venn diagrams, permutations and combinations. MATH011 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH111 (or MATH113 or MATH110), or MATH003, all of which are graded.

1101	Stephen Kcenich	Seats (Total: 22)
	MTuWThF 9:00am - 9:50am	MTH B0427

MATH013

Algebra for MATH 113

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH113. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH113, the same semester, which also meets 5 days per week. Continuation in MATH113 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential, logarithm functions, and trigonometry. MATH013 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH113 (or MATH110), or MATH003, all of which are graded.

1101	Santuria Orsetti	Seats (Total: 22)
	MTuWThF 9:00am - 9:50am	MTH B0423

1201	Debra Franklin	Seats (Total: 22)
	MTuWThF 12:00pm - 12:50pm	MTH 0402

MATH015

Algebra for MATH 115

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A review of Intermediate High School Algebra intended for students preparing for MATH115. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH115, the same semester, which also meets 5 days per week. Continuation in MATH115 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations in one and two variables, quadratic equations, as well as polynomial, rational, exponential, logarithm functions and trigonometry. MATH015 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH115 (or MATH111 or MATH113 or MATH110), or MATH003, all of which are graded.

1101	Ben Bezejouh	Seats (Total: 22)
	MTuWThF 9:00am - 9:50am	JMP 3202
1201	Santuria Orsetti	Seats (Total: 22)
	MTuWThF 12:00pm - 12:50pm	MTH B0423

MATH110

Elementary Mathematical Models

Credits: 3 Grading Method: Regular, General Education: FSMA
Pass-Fail, Audit

Prerequisite: Must have math eligibility of MATH110 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences;; and must not have completed MATH220, MATH130, or MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140 or MATH130 or MATH220. Credit only granted for: MATH110, MATH112, or MATH113.

Topics include simple and compound interest; recursion for computing balances; installment loans and amortization; approximating data by linear models; analysis of applications to real-world collections of data; probability; conditional probability; independence; expected value; graphing and analysis of systems of inequalities; linear programming and applications.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 or a TI-83+ calculator.

0101	Stephen Sorokanich	Seats (Total: 22)
	MWF 11:00am - 11:50am	MTH 0302

0201	Stephen Sorokanich MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH 0302
0301	Julie Daberkow MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0102
0401	Hsin-Yi Lin MWF 2:00pm - 2:50pm	Seats (Total: 22) MTH 0102
1201	Ben Bezejouh MTuWThF 12:00pm - 12:50pm	Seats (Total: 22) JMP 3202

MATH111

Introduction to Probability

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSMA

Prerequisite: Must have math eligibility of MATH111 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Or MATH110. Restriction: Not open to students majoring in mathematics, engineering or the physical sciences; and must not have completed STAT100; and must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH111 or STAT100.

Logic, Boolean algebra, counting, probability, random variables, expectation, applications of the normal probability distribution.

0101	Mark Magsino MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0104
0102	Micah Goldblum MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0411
0103	Lijuan Cao MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0407
0201	Mark Magsino MWF 2:00pm - 2:50pm	Seats (Total: 22) MTH 0104
0202	Micah Goldblum MWF 2:00pm - 2:50pm	Seats (Total: 22) MTH 0411
0203	Lijuan Cao MWF 2:00pm - 2:50pm	Seats (Total: 22) MTH 0407

1101	Stephen Kcenich	Seats (Total: 22)
	MTuWThF 9:00am - 9:50am	MTH B0427

MATH113

College Algebra and Trigonometry

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSMA

Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH220, MATH140, MATH112, MATH115, or MATH130; and must not have completed any course with a prerequisite of MATH140 or MATH130 or MATH220. Credit only granted for: Students who have credits for MATH113 may not also receive credits for MATH110, MATH112, or MATH115.

Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.

0101	Chenzhi Zhao	Seats (Total: 30)
	MWF 10:00am - 10:50am	MTH 0401
0102	Pratima Hebbar	Seats (Total: 30)
	MWF 10:00am - 10:50am	MTH 0306
0103	Jeremiah Emidih	Seats (Total: 30)
	MWF 10:00am - 10:50am	MTH B0429
0201	Chenzhi Zhao	Seats (Total: 29)
	MWF 11:00am - 11:50am	MTH 0401
0202	Pratima Hebbar	Seats (Total: 29)
	MWF 11:00am - 11:50am	MTH 0306
0203	Jeremiah Emidih	Seats (Total: 29)
	MWF 11:00am - 11:50am	MTH B0429
0301	Graham Antoszewski	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	MTH 0105
0302	David Reynoso Valle	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	MTH B0427

0401	Graham Antoszewski MWF 2:00pm - 2:50pm	Seats (Total: 29) MTH 0105
0402	David Reynoso Valle MWF 2:00pm - 2:50pm	Seats (Total: 29) MTH B0427
0403	Jacqueline Stone MWF 2:00pm - 2:50pm	Seats (Total: 29) MTH B0425
1101	Santuria Orsetti MTuWThF 9:00am - 9:50am	Seats (Total: 22) MTH B0423
1201	Debra Franklin MTuWThF 12:00pm - 12:50pm	Seats (Total: 22) MTH 0402

MATH115

Precalculus

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSMA

Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140; and must not have completed any MATH or STAT course with a prerequisite of MATH140. Credit only granted for: Students who have credits for MATH115 may not also receive credits for MATH112 or MATH113.

Preparation for MATH220, MATH130 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.

Preparation for MATH 220 or MATH 140. All sections will require the use of a TI graphics calculator. Instructor will use a TI-83 or TI-83+ calculator. If purchasing used books additional software may be required.

0111	Raluca Rosca MW 9:00am - 9:50am MWF 10:00am - 10:50am	Seats (Total: 29) ARM 0135 PHY 4207	Discussion
0121	Raluca Rosca MW 9:00am - 9:50am MWF 11:00am - 11:50am	Seats (Total: 29) ARM 0135 PHY 4207	Discussion

0131	Raluca Rosca	Seats (Total: 29)	
	MW 9:00am - 9:50am	ARM 0135	
	MWF 12:00pm - 12:50pm	PHY 4207	Discussion
0141	Raluca Rosca	Seats (Total: 29)	
	MW 9:00am - 9:50am	ARM 0135	
	MWF 1:00pm - 1:50pm	PHY 4207	Discussion
0151	Raluca Rosca	Seats (Total: 29)	
	MW 9:00am - 9:50am	ARM 0135	
	TuTh 9:30am - 10:45am	PHY 4207	Discussion
0161	Raluca Rosca	Seats (Total: 29)	
	MW 9:00am - 9:50am	ARM 0135	
	TuTh 11:00am - 12:15pm	PHY 4207	Discussion
1101	Ben Bezejouh	Seats (Total: 22)	
	MTuWThF 9:00am - 9:50am	JMP 3202	
1201	Santuria Orsetti	Seats (Total: 22)	
	MTuWThF 12:00pm - 12:50pm	MTH B0423	

MATH130

Calculus I for the Life Sciences

Credits: 4 Grading Method: Regular, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Restriction: Must be in a major in CMNS-Biological Sciences UG Program; and not open to students majoring in mathematics, engineering, or the physical sciences. Credit only granted for: MATH130, MATH220, or MATH140.

Basic ideas of differential integral calculus, with emphasis on elementary techniques and applications to the life sciences.

0111	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 8:00am - 8:50am	MTH 0101	Discussion
0121	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 9:00am - 9:50am	MTH 0101	Discussion

0131	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 10:00am - 10:50am	MTH 0101	Discussion
0132	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 10:00am - 10:50am	MTH 0103	Discussion
0141	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 11:00am - 11:50am	MTH 0101	Discussion
0142	Giovanni Forni	Seats (Total: 22)	
	TuTh 11:00am - 12:15pm	ARM 0131	
	MW 11:00am - 11:50am	MTH 0103	Discussion

MATH131

Calculus II for Life Sciences

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit CORE: MS

Prerequisite: Minimum grade of C- in MATH130; or minimum grade of C- in MATH140. Restriction: Must be in a major in CMNS-Biological Sciences UG Program. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH130, including an introduction to autonomous differential equations, probability (including conditional probability and the normal and binomial distributions), and statistical reasoning (including confidence intervals). Alongside the mathematical concepts will be applications in biology.

0111	McBlaine Boyle	Seats (Total: 27)	
	TuTh 9:30am - 10:45am	ARM 0131	
	WF 8:00am - 8:50am	MTH 0303	Discussion
0121	McBlaine Boyle	Seats (Total: 27)	
	TuTh 9:30am - 10:45am	ARM 0131	
	WF 9:00am - 9:50am	MTH 0303	Discussion
0131	McBlaine Boyle	Seats (Total: 27)	
	TuTh 9:30am - 10:45am	ARM 0131	
	WF 11:00am - 11:50am	MTH 0303	Discussion

0141	McBlaine Boyle TuTh 9:30am - 10:45am WF 12:00pm - 12:50pm	Seats (Total: 27) ARM 0131 MTH 0303	Discussion
0211	Guan Huang TuTh 12:30pm - 1:45pm MF 8:00am - 8:50am	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0221	Guan Huang TuTh 12:30pm - 1:45pm MF 9:00am - 9:50am	Seats (Total: 27) ARM 0131 MTH 0306	Discussion
0231	Guan Huang TuTh 12:30pm - 1:45pm MF 11:00am - 11:50am	Seats (Total: 28) ARM 0131 MTH B0421	Discussion
0241	Guan Huang TuTh 12:30pm - 1:45pm MF 12:00pm - 12:50pm	Seats (Total: 28) ARM 0131 MTH B0421	Discussion

MATH140

Calculus I

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: Minimum grade of C- in MATH115. Or must have math eligibility of MATH140 or higher; and math eligibility is based on the Math Placement Test. Credit only granted for: MATH130, MATH220, or MATH140.

Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, or TI-86 calculator. If purchasing used books additional software may be required.

0111	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0112	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion

0113	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 8:00am - 8:50am	Seats (Total: 30) ARM 0126 MTH 0405	Discussion
0121	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0122	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0123	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 9:00am - 9:50am	Seats (Total: 30) ARM 0126 MTH 0405	Discussion
0131	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 30) ARM 0126 MTH 0407	Discussion
0132	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 10:00am - 10:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0141	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 0104	Discussion
0142	Timothy Pilachowski MWF 11:00am - 11:50am TuTh 11:00am - 11:50am	Seats (Total: 30) ARM 0126 MTH 0401	Discussion
0211	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 30) ARM 0131 MTH B0425	Discussion
0212	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 12:00pm - 12:50pm	Seats (Total: 28) ARM 0131 MTH 0104	Discussion

0221	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 30) ARM 0131 MTH B0425	Discussion
0222	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 1:00pm - 1:50pm	Seats (Total: 28) ARM 0131 MTH 0104	Discussion
0231	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 30) ARM 0131 MTH B0425	Discussion
0232	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 2:00pm - 2:50pm	Seats (Total: 28) ARM 0131 MTH 0104	Discussion
0241	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 30) ARM 0131 MTH B0425	Discussion
0242	Bradford Sanders MWF 2:00pm - 2:50pm TuTh 3:00pm - 3:50pm	Seats (Total: 28) ARM 0131 MTH 0104	Discussion
0301	Eric Hamilton MWF 11:00am - 11:50am TuTh 9:30am - 10:20am	Seats (Total: 30) MTH 0105 MTH B0421	

MATH141

Calculus II

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or minimum grade of B- in MATH130; and permission of CMNS-Mathematics department. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

All sections will require the use of a TI graphics calculator. Instructor will use a TI-83, TI-83+, or TI-86 calculator. Emphasis on student interaction in groups, including team approach to solving calculus based problems. In addition to the lectures, there will be 2 eighty-minute workshops each week with enhanced assistance and support for students. If purchasing used books additional software may be required.

0111	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 23) PHY 1412 MTH 0103	Discussion
0112	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 23) PHY 1412 MTH 0302	Discussion
0113	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 23) PHY 1412 MTH 0303	Discussion
0114	Denny Gulick MWF 8:00am - 8:50am TuTh 8:00am - 9:20am	Seats (Total: 23) PHY 1412 MTH 0106	Discussion
0121	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 23) PHY 1412 MTH 0103	Discussion
0122	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 23) PHY 1412 MTH 0302	Discussion
0123	Denny Gulick MWF 8:00am - 8:50am TuTh 9:30am - 10:50am	Seats (Total: 23) PHY 1412 MTH 0303	Discussion
0131	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 23) PHY 1412 MTH 0103	Discussion
0132	Denny Gulick MWF 8:00am - 8:50am TuTh 11:00am - 12:20pm	Seats (Total: 23) PHY 1412 MTH 0302	Discussion

0211	Frances Gulick MWF 10:00am - 10:50am TuTh 8:00am - 9:20am	Seats (Total: 24) ARM 0126 MTH 0101	Discussion
0212	Frances Gulick MWF 10:00am - 10:50am TuTh 8:00am - 9:20am	Seats (Total: 24) ARM 0126 MTH 0306	Discussion
0213	Frances Gulick MWF 10:00am - 10:50am TuTh 8:00am - 9:20am	Seats (Total: 24) ARM 0126 MTH 0102	Discussion
0221	Frances Gulick MWF 10:00am - 10:50am TuTh 9:30am - 10:50am	Seats (Total: 24) ARM 0126 MTH 0101	Discussion
0222	Frances Gulick MWF 10:00am - 10:50am TuTh 9:30am - 10:50am	Seats (Total: 24) ARM 0126 MTH 0306	Discussion
0223	Frances Gulick MWF 10:00am - 10:50am TuTh 9:30am - 10:50am	Seats (Total: 24) ARM 0126 MTH 0102	Discussion
0231	Frances Gulick MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0126 MTH 0411	Discussion
0232	Frances Gulick MWF 10:00am - 10:50am TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0126 MTH 0306	Discussion
0311	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0126 MTH 0105	Discussion
0312	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0126 MTH B0429	Discussion

0313	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0126 MTH 0305	Discussion
0321	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0126 MTH 0105	Discussion
0322	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0126 MTH B0429	Discussion
0323	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0126 MTH 0305	Discussion
0331	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 24) ARM 0126 MTH B0429	Discussion
0332	Jeffrey Adams MWF 12:00pm - 12:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 24) ARM 0126 MTH 0305	Discussion
0411	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0131 MTH 0407	Discussion
0412	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0131 MTH 0403	Discussion
0413	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 11:00am - 12:20pm	Seats (Total: 24) ARM 0131 MTH 0409	Discussion
0421	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0131 MTH 0407	Discussion

0422	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0403	Discussion
0423	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 25) ARM 0131 MTH 0409	Discussion
0431	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 24) ARM 0131 MTH 0407	Discussion
0432	Steven Chadwick MWF 1:00pm - 1:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 24) ARM 0131 MTH 0403	Discussion
0511	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0135 MTH 1311	Discussion
0512	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 12:30pm - 1:50pm	Seats (Total: 24) ARM 0135 MTH 0302	Discussion
0521	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 2:00pm - 3:20pm	Seats (Total: 24) ARM 0135 MTH 0105	Discussion
0531	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 3:30pm - 4:50pm	Seats (Total: 24) ARM 0135 MTH 0105	Discussion
0532	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 3:30pm - 4:50pm	Seats (Total: 24) ARM 0135 MTH 0403	Discussion
0533	Nathaniael Manning MWF 3:00pm - 3:50pm TuTh 3:30pm - 4:50pm	Seats (Total: 24) ARM 0135 MTH 0302	Discussion

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit CORE: MS

Prerequisite: Minimum grade of C- in MATH140. Or minimum grade of B- in MATH130; and permission of CMNS-Mathematics department. Credit only granted for: MATH131, MATH141, or MATH221.

Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

For general honors students only. TI graphics calculator required. Instructor will use TI-83, TI-83+ or TI-86 calculator.

0201	Peter Nandori	Seats (Total: 27)
	M 12:00pm - 1:50pm	MTH 0307
	WF 12:00pm - 12:50pm	MTH 0307

MATH199A Special Topics in Mathematics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Many games have a mathematical component. We will introduce several games, play them, and investigate the underlying mathematics. Students will work in teams on projects that involve developing strategies for new games.

1901	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

MATH206 Introduction to Matlab

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH141, MATH131). Credit only granted for: CMSC206, CMSC298M, MATH206, or MATH299M.

This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.

0101	Justin Wyss-Gallifent	Seats (Total: 390)
	Meets January 25, 2016 - March 4, 2016	
	Class time/details on ELMs	ONLINE

Elements of Numbers and Operations

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have completed one year of college preparatory algebra. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH212 or MATH210.

Reviews and extends topics of arithmetic and number theory related to the elementary school curriculum, particularly number systems and operations with natural numbers, integers, and rationals.

0201	Karen McLaren MWF 9:00am - 9:50am	Seats (Total: 22) MTH B0429
0401	Robert Maschal MWF 12:00pm - 12:50pm	Seats (Total: 22) MTH 0103
0501	Robert Maschal MWF 1:00pm - 1:50pm	Seats (Total: 22) MTH 0103

MATH213

Elements of Geometry and Measurement

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH213.

Properties of geometric objects in two and three dimensions; parallel lines, curves and polygons; ratio, proportion, similarity; transformational geometry and measurement, constructions, justifications and proofs.

0101	Timothy Mercure MWF 10:00am - 10:50am	Seats (Total: 25) MTH 0405
0201	Timothy Mercure MWF 11:00am - 11:50am	Seats (Total: 25) MTH 0405
0401	Alice Cook MWF 12:00pm - 12:50pm	Seats (Total: 25) MTH 0411

MATH214

Elements of Probability and Statistics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education). Credit only granted for: MATH211 or MATH214.

Permutations and combinations; probability; collecting and representing data; using statistics to analyze and interpret data.

0101	Jesse Milzman MWF 8:00am - 8:50am	Seats (Total: 22) MTH 0302
0201	Jesse Milzman MWF 9:00am - 9:50am	Seats (Total: 22) MTH 0302

MATH220

Elementary Calculus I

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH112, MATH113, or MATH115. Or must have math eligibility of MATH220 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH130, MATH220, or MATH140.

Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.

0111	Lawrence Washington MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 31) ARM 0131 MTH 0304	Discussion
0112	Lawrence Washington MWF 9:00am - 9:50am Tu 8:00am - 8:50am	Seats (Total: 31) ARM 0131 MTH 0201	Discussion
0121	Lawrence Washington MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 32) ARM 0131 MTH 0304	Discussion
0122	Lawrence Washington MWF 9:00am - 9:50am Tu 9:00am - 9:50am	Seats (Total: 31) ARM 0131 MTH 0201	Discussion
0131	Lawrence Washington MWF 9:00am - 9:50am Tu 10:00am - 10:50am	Seats (Total: 32) ARM 0131 MTH 0304	Discussion

0132	Lawrence Washington MWF 9:00am - 9:50am Tu 10:00am - 10:50am	Seats (Total: 32) ARM 0131 MTH 0201	Discussion
0141	Lawrence Washington MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 31) ARM 0131 MTH 0304	Discussion
0142	Lawrence Washington MWF 9:00am - 9:50am Tu 11:00am - 11:50am	Seats (Total: 31) ARM 0131 MTH 0201	Discussion
0211	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 8:00am - 8:50am	Seats (Total: 31) ARM 0135 MTH 0304	Discussion
0212	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 8:00am - 8:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0221	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 9:00am - 9:50am	Seats (Total: 31) ARM 0135 MTH 0304	Discussion
0222	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 9:00am - 9:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0231	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 10:00am - 10:50am	Seats (Total: 31) ARM 0135 MTH 0304	Discussion
0232	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 10:00am - 10:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0241	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 31) ARM 0135 MTH 0304	Discussion

0242	Timothy Pilachowski MWF 2:00pm - 2:50pm Th 11:00am - 11:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0311	Nathaniael Manning TuTh 11:00am - 12:15pm M 8:00am - 8:50am	Seats (Total: 31) ARM 0135 MTH 0409	Discussion
0312	Nathaniael Manning TuTh 11:00am - 12:15pm M 8:00am - 8:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0321	Nathaniael Manning TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 31) ARM 0135 MTH 0409	Discussion
0322	Nathaniael Manning TuTh 11:00am - 12:15pm M 9:00am - 9:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0331	Nathaniael Manning TuTh 11:00am - 12:15pm M 10:00am - 10:50am	Seats (Total: 30) ARM 0135 MTH 0409	Discussion
0332	Nathaniael Manning TuTh 11:00am - 12:15pm M 10:00am - 10:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion
0341	Nathaniael Manning TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 30) ARM 0135 MTH 0409	Discussion
0342	Nathaniael Manning TuTh 11:00am - 12:15pm M 11:00am - 11:50am	Seats (Total: 31) ARM 0135 MTH 0201	Discussion

MATH221

Elementary Calculus II

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: MS

Prerequisite: MATH220, MATH130, or MATH140. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences. Credit only granted for: MATH131, MATH141, or MATH221.

Differential and integral calculus, with emphasis on elementary techniques of integration and applications.

0101	Jonathan Cohen	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	MTH 0306
0201	Jonathan Cohen	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 0306

MATH240

Introduction to Linear Algebra

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH131; or MATH141. Credit only granted for: BIOE371, MATH240, MATH341, or MATH461.

Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.

0111	Raluca Rosca	Seats (Total: 28)
	MWF 11:00am - 11:50am	PHY 1412
	TuTh 12:00pm - 12:50pm	MTH 0307 Discussion
0112	Raluca Rosca	Seats (Total: 28)
	MWF 11:00am - 11:50am	PHY 1412
	TuTh 12:00pm - 12:50pm	MTH 0101 Discussion
0113	Raluca Rosca	Seats (Total: 29)
	MWF 11:00am - 11:50am	PHY 1412
	TuTh 12:00pm - 12:50pm	MTH B0427 Discussion
0121	Raluca Rosca	Seats (Total: 29)
	MWF 11:00am - 11:50am	PHY 1412
	TuTh 1:00pm - 1:50pm	MTH 0307 Discussion
0122	Raluca Rosca	Seats (Total: 28)
	MWF 11:00am - 11:50am	PHY 1412
	TuTh 1:00pm - 1:50pm	MTH 0101 Discussion

0123	Raluca Rosca MWF 11:00am - 11:50am TuTh 1:00pm - 1:50pm	Seats (Total: 28) PHY 1412 MTH B0427	Discussion
0131	Raluca Rosca MWF 11:00am - 11:50am TuTh 2:00pm - 2:50pm	Seats (Total: 28) PHY 1412 MTH 0307	Discussion
0132	Raluca Rosca MWF 11:00am - 11:50am TuTh 2:00pm - 2:50pm	Seats (Total: 28) PHY 1412 MTH 0101	Discussion
0141	Raluca Rosca MWF 11:00am - 11:50am TuTh 3:00pm - 3:50pm	Seats (Total: 28) PHY 1412 MTH 0307	Discussion
0142	Raluca Rosca MWF 11:00am - 11:50am TuTh 3:00pm - 3:50pm	Seats (Total: 28) PHY 1412 MTH 0101	Discussion

MATH241

Calculus III

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

All sections will use MATLAB.

0111	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 25) ARM 0126 MTH 0403	Discussion
0112	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 8:00am - 8:50am	Seats (Total: 25) ARM 0126 EGR 3102	Discussion

0121	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 25) ARM 0126 MTH 0403	Discussion
0122	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 9:00am - 9:50am	Seats (Total: 25) ARM 0126 EGR 3102	Discussion
0131	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 25) ARM 0126 PHY 4221	Discussion
0132	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 10:00am - 10:50am	Seats (Total: 27) ARM 0126 CHM 0124	Discussion
0141	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 PHY 4221	Discussion
0142	Manoussos Grillakis MWF 9:00am - 9:50am TuTh 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH B0427	Discussion
0211	Melissa Macasieb MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 25) ARM 0131 EGR 1102	Discussion
0212	Melissa Macasieb MWF 10:00am - 10:50am TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0131 CHM 0124	Discussion
0221	Melissa Macasieb MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0131 CHM 0128	Discussion
0222	Melissa Macasieb MWF 10:00am - 10:50am TuTh 9:00am - 9:50am	Seats (Total: 27) ARM 0131 JMP 2202	Discussion

0231	Melissa Macasieb MWF 10:00am - 10:50am TuTh 1:00pm - 1:50pm	Seats (Total: 27) ARM 0131 MTH 0401	Discussion
0232	Melissa Macasieb MWF 10:00am - 10:50am TuTh 1:00pm - 1:50pm	Seats (Total: 26) ARM 0131 MTH 0106	Discussion
0241	Melissa Macasieb MWF 10:00am - 10:50am TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0131 MTH 0302	Discussion
0242	Melissa Macasieb MWF 10:00am - 10:50am TuTh 2:00pm - 2:50pm	Seats (Total: 27) ARM 0131 MTH 0106	Discussion
0311	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 8:00am - 8:50am	Seats (Total: 27) ARM 0131 MTH 1308	Discussion
0312	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 8:00am - 8:50am	Seats (Total: 26) ARM 0131 MTH 1311	Discussion
0321	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 9:30am - 10:20am	Seats (Total: 27) ARM 0131 EGR 0108	Discussion
0322	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 9:30am - 10:20am	Seats (Total: 27) ARM 0131 JMP 1202	Discussion
0331	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 MTH B0423	Discussion
0332	Wiseley Wong MWF 12:00pm - 12:50pm TuTh 11:00am - 11:50am	Seats (Total: 28) ARM 0131 CHE 2136	Discussion

0341	Wiseley Wong	Seats (Total: 28)	
	MWF 12:00pm - 12:50pm	ARM 0131	
	TuTh 12:30pm - 1:20pm	MTH 0306	Discussion
0342	Wiseley Wong	Seats (Total: 28)	
	MWF 12:00pm - 12:50pm	ARM 0131	
	TuTh 12:30pm - 1:20pm	MTH 0201	Discussion

MATH241H Calculus III

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.

Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.

For general honors students only. MATH 241H will use MATLAB.

0101	Wiseley Wong	Seats (Total: 27)	
	MF 10:00am - 10:50am	MTH 0102	
	W 10:00am - 11:50am	MTH 0102	

MATH246 Differential Equations for Scientists and Engineers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

All sections will use MATLAB.

0111	Gadi Fibich	Seats (Total: 27)	
	TuTh 12:30pm - 1:45pm	ARM 0126	
	F 8:00am - 8:50am	MTH 0201	Discussion
0112	Gadi Fibich	Seats (Total: 27)	
	TuTh 12:30pm - 1:45pm	ARM 0126	
	F 8:00am - 8:50am	MTH 0409	Discussion

0113	Gadi Fibich TuTh 12:30pm - 1:45pm F 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0121	Gadi Fibich TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0122	Gadi Fibich TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion
0123	Gadi Fibich TuTh 12:30pm - 1:45pm F 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0131	Gadi Fibich TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0132	Gadi Fibich TuTh 12:30pm - 1:45pm F 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion
0141	Gadi Fibich TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0142	Gadi Fibich TuTh 12:30pm - 1:45pm F 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion
0211	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 28) ARM 0126 MTH 0104	Discussion
0212	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 29) ARM 0126 MTH 1313	Discussion

0213	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 8:00am - 8:50am	Seats (Total: 26) ARM 0126 MTH 1311	Discussion
0221	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0222	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 28) ARM 0126 MTH 1313	Discussion
0223	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 26) ARM 0126 MTH 1311	Discussion
0231	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0232	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 10:00am - 10:50am	Seats (Total: 29) ARM 0126 MTH 1313	Discussion
0241	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0104	Discussion
0242	Roohollah Ebrahimian TuTh 2:00pm - 3:15pm M 11:00am - 11:50am	Seats (Total: 28) ARM 0126 MTH 1313	Discussion
0311	Casey Cremins TuTh 11:00am - 12:15pm W 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0312	Casey Cremins TuTh 11:00am - 12:15pm W 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion

0313	Casey Cremins TuTh 11:00am - 12:15pm W 8:00am - 8:50am	Seats (Total: 27) ARM 0126 MTH 1313	Discussion
0321	Casey Cremins TuTh 11:00am - 12:15pm W 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0322	Casey Cremins TuTh 11:00am - 12:15pm W 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion
0323	Casey Cremins TuTh 11:00am - 12:15pm W 9:00am - 9:50am	Seats (Total: 27) ARM 0126 MTH 1313	Discussion
0331	Casey Cremins TuTh 11:00am - 12:15pm W 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0332	Casey Cremins TuTh 11:00am - 12:15pm W 10:00am - 10:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion
0341	Casey Cremins TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0201	Discussion
0342	Casey Cremins TuTh 11:00am - 12:15pm W 11:00am - 11:50am	Seats (Total: 27) ARM 0126 MTH 0409	Discussion

MATH246H Differential Equations for Scientists and Engineers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.

An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.

For general honors students only. MATH 246H will use MATLAB.

0101	Richard Wentworth MWF 2:00pm - 2:50pm	Seats (Total: 27) MTH 0302
0201	Kelly Yancey TuTh 11:00am - 12:15pm	Seats (Total: 27) MTH 0303

MATH274 History of Mathematics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: IE

Prerequisite: MATH130, MATH140, or MATH220.

An overview of aspects in the history of mathematics from its beginning in the concrete problem solving of ancient times through the development of abstraction in the 19th and 20th centuries. The course considers both mathematical ideas and the context in which they developed in various civilizations around the world.

MATH 274 cannot satisfy a CMSC major requirement.

0101	Justin Wyss-Gallifent MWF 3:00pm - 3:50pm	Seats (Total: 27) MTH 0402
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MATH299A Selected Topics in Mathematics

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest under the general guidance of the departmental committee on undergraduate studies.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
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MATH310 Introduction to Mathematical Proof

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department. Credit only granted for: MATH307 or MATH310. Additional information: Math majors may not use this course to satisfy an upper-level requirement.

To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.

0101	Nathaniael Manning MWF 9:00am - 9:50am	Seats (Total: 28) MTH 0304
0201	Kathryn Truman MWF 10:00am - 10:50am	Seats (Total: 28) MTH 0304
0301	Huanchen Bao MWF 11:00am - 11:50am	Seats (Total: 28) MTH 0106
0401	Richard Rast MWF 10:00am - 10:50am	Seats (Total: 28) MTH 0303

MATH312 Mathematical Reasoning and Proof for Pre-Service Middle School Teachers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH212 and MATH213. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education).

Reasoning and proof as addressed in the middle school curriculum. Topic include proportional reasoning, logic and proof, types of numbers, field axioms, Euclidean and non-Euclidean geometry.

0101	Carolina Napp-Avelli MW 3:30pm - 4:45pm	Seats (Total: 29) EDU 2121
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MATH314 Introduction to Probability, Data, Analysis and Statistics for Preservice Middle School Teachers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH214. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH314 or STAT100.

Analysis of bivariate data, probability and randomness, law of large numbers, central limit theorem, probabilities for independent and dependent events, counting techniques, random variables and probability distributions, expected values, sampling distributions, and confidence intervals.

0101	Angela Stoltz MW 2:00pm - 3:15pm	Seats (Total: 25) EDU 2121
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MATH341 Multivariable Calculus, Linear Algebra, Differential Equations II (Honors)

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: Minimum grade of C- in MATH340. Restriction: Open to second semester Freshmen only.
Credit only granted for: MATH240, MATH246, MATH341 or MATH461.*

A continuation of MATH340.

0101	Heyrim Cho	Seats (Total: 25)
	MWF 11:00am - 12:15pm	HBK 0108
0201	Niranjan Ramachandran	Seats (Total: 25)
	MWF 12:00pm - 1:15pm	EGR 0135

MATH386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS Mathematics Department.

Contact department for information to register for this course.

MATH401 Applications of Linear Algebra

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).

Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.

0101	Steven Chadwick	Seats (Total: 29)
	MWF 9:00am - 9:50am	MTH 0401
0201	Roohollah Ebrahimian	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	MTH 0302
0301	Ricardo Nochetto	Seats (Total: 29)
	TuTh 9:30am - 10:45am	MTH 0307

0401	Qiaoling Wei	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	MTH 0103

MATH402 Algebraic Structures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461).

Restriction: Must not be in any of the following programs (Mathematics (Master's); Mathematics (Doctoral)). Credit only granted for: MATH402 or MATH403.

For students having only limited experience with rigorous mathematical proofs. Parallels MATH403. Students planning graduate work in mathematics should take MATH403. Groups, rings, integral domains and fields, detailed study of several groups; properties of integers and polynomials. Emphasis is on the origin of the mathematical ideas studied and the logical structure of the subject.

0101	Frances Gulick	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 1308

MATH403 Introduction to Abstract Algebra

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH340); and 1 course with a minimum grade of C- from (MATH341, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department. Credit only granted for: MATH402 or MATH403.

Integers; groups, rings, integral domains, fields.

0101	Amin Gholampour	Seats (Total: 30)
	MWF 11:00am - 11:50am	MTH 0304

MATH404 Field Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH403.

Algebraic and transcendental elements, Galois theory, constructions with straight-edge and compass, solutions of equations of low degrees, insolubility of the quintic equation, Sylow theorems, fundamental theorem of finite Abelian groups.

0101	James Schafer	Seats (Total: 25)
	TuTh 9:30am - 10:45am	MTH 1308

MATH405 Linear Algebra

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and minimum grade of C- in MATH310.

An abstract treatment of finite dimensional vector spaces. Linear transformations and their invariants.

0101	Michael Laskowski	Seats (Total: 32)
	TuTh 12:30pm - 1:45pm	MTH B0421

MATH406 Introduction to Number Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.

Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.

0101	Xuhua He	Seats (Total: 28)
	MWF 10:00am - 10:50am	MTH 0302
0201	Roohollah Ebrahimian	Seats (Total: 32)
	TuTh 11:00am - 12:15pm	MTH B0421
0301	Joel Cohen	Seats (Total: 27)
	TuTh 12:30pm - 1:45pm	MTH 0102

MATH410 Advanced Calculus I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department.

First semester of a year course. Subjects covered during the year are: sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.

0101	Denny Gulick MWF 10:00am - 10:50am	Seats (Total: 30) MTH 0106
0201	Leonid Koralov MWF 1:00pm - 1:50pm	Seats (Total: 25) MTH 0305
0301	David Hamilton MWF 2:00pm - 2:50pm	Seats (Total: 28) MTH 0307
0401	McBlaine Boyle TuTh 12:30pm - 1:45pm	Seats (Total: 28) MTH 0405
0501	Benjamin Manning MWF 10:00am - 10:50am	Seats (Total: 25) MTH 0307

MATH411

Advanced Calculus II

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: Minimum grade of C- in MATH410; and permission of CMNS-Mathematics department.
Credit only granted for: MATH411 or MATH412.*

Continuation of MATH410.

0101	Patrick Brosnan MWF 9:00am - 9:50am	Seats (Total: 25) MTH 0106
0201	Michele Coti Zelati TuTh 12:30pm - 1:45pm	Seats (Total: 25) MTH 1308

MATH416

Applied Harmonic Analysis: An Introduction to Signal Processing

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and familiarity with MATLAB is required.

Introduces students to the mathematical concepts arising in signal analysis from the applied harmonic analysis point of view. Topics include applied linear algebra, Fourier series, discrete Fourier transform, Fourier transform, Shannon Sampling Theorem, wavelet bases, multiresolution analysis, and discrete wavelet transform.

0101	Radu Balan	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	CSI 4122

MATH420

Mathematical Modeling

Credits: 3 Grading Method: Regular CORE: CS

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341); and minimum grade of C- in STAT400. And 1 course with a minimum grade of C- from (CMSC106, CMSC131); or students who have taken courses with comparable content may contact the department. Also offered as: AMSC420. Credit only granted for: AMSC420 or MATH420.

The course will develop skills in data-driven mathematical modeling through individual and group projects. Emphasis will be placed on both analytical and computational methods, and on effective oral and written presentation of results.

0101	Charles Levermore	Seats (Total: 25)
	TuTh 9:30am - 10:45am	MTH 0106

MATH430

Euclidean and Non-Euclidean Geometries

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461).

Hilbert's axioms for Euclidean geometry. Neutral geometry: the consistency of the hyperbolic parallel postulate and the inconsistency of the elliptic parallel postulate with neutral geometry. Models of hyperbolic geometry. Existence and properties of isometries.

0101	Melissa Macasieb	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	MTH 1311

MATH437

Differential Forms

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH241 or MATH340; and (MATH461, MATH240, or MATH341). Recommended: MATH405, MATH403, MATH436, MATH410, or MATH432.

Introduction to differential forms and their applications, and unites the fundamental theorems of multivariable calculus in a general Stokes Theorem that is valid in great generality. It develops this theory and technique to perform calculations in analysis and geometry. Topics include an introduction to topological spaces, the Gauss-Bonnet Theorem, Gauss's formula for the linking number, and the Cauchy Integral Theorem. Applications include Maxwell's equations of electromagnetism, connections and gauge theory, and symplectic geometry and Hamiltonian dynamics.

0101	Hans-Joachim Hein	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	MTH 1308

MATH446 Axiomatic Set Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH403 or MATH410.

Development of a system of axiomatic set theory, choice principles, induction principles, ordinal arithmetic including discussion of cancellation laws, divisibility, canonical expansions, cardinal arithmetic including connections with the axiom of choice, Hartog's theorem, Konig's theorem, properties of regular, singular and inaccessible cardinals.

0101	Michael Laskowski	Seats (Total: 22)
	TuTh 2:00pm - 3:15pm	MTH 0102

MATH456 Cryptology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed two 400-level MATH courses (not to include MATH 461, 478, and 480's) with a minimum grade of C-. Or minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Mathematics department. Also offered as: CMSC456. Credit only granted for: MATH456 or CMSC456.

Importance in protecting data in communications between computers. The subject lies on the border between mathematics and computer science. Mathematical topics include number theory and probability. Computer science topics include complexity theory.

0101	Jonathan Katz	Seats (Total: 70)
	MWF 10:00am - 10:50am	CSI 2117

MATH461**Linear Algebra for Scientists and Engineers**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH141; and must have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: BIOE371, MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.

Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.

0111	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 8:00am - 8:50am	Seats (Total: 27) ARM 0131 MTH 0102 Discussion
0112	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 8:00am - 8:50am	Seats (Total: 26) ARM 0131 MTH 1311 Discussion
0121	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 9:00am - 9:50am	Seats (Total: 27) ARM 0131 MTH 0104 Discussion
0122	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 9:00am - 9:50am	Seats (Total: 26) ARM 0131 MTH 1311 Discussion
0123	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 9:00am - 9:50am	Seats (Total: 23) ARM 0131 MTH 0306 Discussion
0131	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 10:00am - 10:50am	Seats (Total: 27) ARM 0131 CHM 0124 Discussion
0132	Konstantina Trivisa TuTh 2:00pm - 3:15pm W 10:00am - 10:50am	Seats (Total: 27) ARM 0131 MTH 0104 Discussion

0141	Konstantina Trivisa	Seats (Total: 28)	
	TuTh 2:00pm - 3:15pm	ARM 0131	
	W 11:00am - 11:50am	MTH 1313	Discussion
0142	Konstantina Trivisa	Seats (Total: 28)	
	TuTh 2:00pm - 3:15pm	ARM 0131	
	W 11:00am - 11:50am	MTH 0407	Discussion

MATH462 Partial Differential Equations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).

Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.

0101	Manoussos Grillakis	Seats (Total: 30)	
	MWF 11:00am - 11:50am	MTH 0307	
0201	Antoine Mellet	Seats (Total: 30)	
	TuTh 2:00pm - 3:15pm	MTH 0304	

MATH463 Complex Variables for Scientists and Engineers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).

The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.

0101	David Hamilton	Seats (Total: 25)	
	MWF 11:00am - 11:50am	MTH 0411	
0201	Vadim Kaloshin	Seats (Total: 25)	
	MWF 2:00pm - 2:50pm	MTH 0403	

MATH464**Transform Methods for Scientists and Engineers**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH246, MATH341).

Fourier transform, Fourier series, discrete fast Fourier transform (DFT and FFT). Laplace transform. Poisson summations, and sampling. Optional Topics: Distributions and operational calculus, PDEs, Wavelet transform, Radon transform and applications such as Imaging, Speech Processing, PDEs of Mathematical Physics, Communications, Inverse Problems.

0101	Kasso Okoudjou	Seats (Total: 28)
	TuTh 9:30am - 10:45am	MTH 0409

MATH475**Combinatorics and Graph Theory**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH240 or MATH341; and (MATH241 or MATH340); and permission of CMNS-Mathematics department. Also offered as: CMSC475. Credit only granted for: MATH475 or CMSC475.

General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.

0101	Wiseley Wong	Seats (Total: 32)
	MWF 9:00am - 9:50am	MTH B0421

MATH478A**Selected Topics For Teachers of Mathematics**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

MATH487**Number for Middle Grades Teachers**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have admission to M.A. or M.Ed. with concentration in Mathematics Education; or permission of CMNS-Mathematics department. Restriction: This course may not be used towards the upper level math requirements for the MATH/STAT major. Credit only granted for: MATH487 or MATH498K. Formerly: MATH498K.

The rational number and proportional reasoning concepts developed in the middle grades and the larger mathematical context for these. Multiple representations of relationships, including verbal descriptions, diagrams, tables, graphs, and equations. Common misconceptions.

Contact department for information to register for this course.

MATH489**Research Interactions in Mathematics; Research Interactions in Mathematics**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) mathematics research group. Format varies. Students and supervising faculty will agree to a contract which must be approved by the department. Up to three credits of MATH489 may be applied to the mathematics degree requirements. See the department's MATH489 online syllabus for further information.

Contact department for information to register for this course.

MATH498A**Selected Topics in Mathematics**

(Perm req)

Credits: 1-9

Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.

Contact department for information to register for this course.

MATH601**Abstract Algebra II**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: MATH600.

Field theory, Galois theory, multilinear algebra. Further topics from: Dedekind domains, Noetherian domains, rings with minimum condition, homological algebra.

Offered Spring only.

0101	Thomas Haines	Seats (Total: 25)
	MWF 11:00am - 11:50am	MTH 1311

MATH631**Real Analysis II**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: MATH630.

Abstract measure and integration theory, metric spaces, Baire category theorem and uniform boundedness principle, Radon-Nikodym theorem, Riesz Representation theorem, Lebesgue decomposition, Banach and Hilbert Spaces, Banach-Steinhaus theorem, topological spaces, Arzela-Ascoli and Stone-Weierstrass theorems, compact sets and Tychonoff's theorem.

Offered Spring only.

0101	Patrick Fitzpatrick	Seats (Total: 22)
	TuTh 9:30am - 10:45am	MTH 1311

MATH660 Complex Analysis I

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MATH410; or students who have taken courses with comparable content may contact the department.

Linear transformations, analytic functions, conformal mappings, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann's mapping theorem.

0101	Richard Wentworth	Seats (Total: 22)
	MWF 1:00pm - 1:50pm	MTH 1313

MATH674 Partial Differential Equations II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MATH673 or AMSC673; or permission of instructor. Also offered as: AMSC674. Credit only granted for: AMSC674 or MATH674.

Boundary value problems for elliptic partial differential equations via operator-theoretic methods. Hilbert spaces of functions. Duality, weak convergence. Sobolev spaces. Spectral theory of compact operators. Eigenfunction expansions.

Offered Spring only.

0101	Jacob Bedrossian	Seats (Total: 22)
	TuTh 11:00am - 12:15pm	MTH 1311

MATH689 Research Interactions in Mathematics

(Perm req) Credits: 1-3 Grading Method: Regular,
 Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

MATH734 Algebraic Topology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH403; or students who have taken courses with comparable content may contact the department. Recommended: MATH730.

Singular homology and cohomology, cup products, Poincare duality, Eilenberg-Steenrod axioms, Whitehead and Hurewicz theorems, universal coefficient theorem, cellular homology.

Offered Spring only.

0101	Steve Halperin	Seats (Total: 22)
	MWF 9:00am - 9:50am	MTH 1308

MATH740 Fundamental Concepts of Differential Geometry

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH405, MATH411, and MATH730; or students who have taken courses with comparable content may contact the department.

Manifolds, tangent vectors and differential forms, Riemannian metrics, connections, curvature, structure equations, geodesics, calculus of variations.

0101	William Goldman	Seats (Total: 22)
	TuTh 12:30pm - 1:45pm	MTH 0411

MATH799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

MATH808A Selected Topics in Algebra

Credits: 1-3 Grading Method: Regular

Advanced topics of current interest.

Contact department for information to register for this course.

MATH808D Selected Topics in Algebra; Geometric Invariant Theory

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Swarnava Mukhopadhyay	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	EGR 2154

MATH808E Selected Topics in Algebra; Algebraic Cycles

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Patrick Brosnan	Seats (Total: 25)
	MWF 11:00am - 11:50am	MTH B0423

MATH808F Selected Topics in Algebra; Algebraic K-Theory

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

0101	Niranjan Ramachandran	Seats (Total: 25)
	MWF 10:00am - 10:50am	MTH 1308

MATH818A Selected Topics in Logic

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848A Selected Topics in Geometry and Topology

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH848K Selected Topics in Geometry and Topology; Topics in Dynamical Systems

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

0101	Vadim Kaloshin	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	MTH 1313

MATH848Z Selected Topics in Geometry and Topology; Scissors Congruence and Invariants of 3-Manifolds

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

0101	Christian Zickert	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MTH 1313

MATH858A Selected Topics in Analysis

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH858L Selected Topics in Analysis; Mathematical Methods in Machine Learning

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

0101	Wojciech Czaja	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	MTH 0405

MATH858M Selected Topics in Analysis; Asymptotic Methods with Applications

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

0101	Dionisios Margetis	Seats (Total: 25)
	TuTh 9:30am - 10:45am	MTH 1313

MATH868A SelectedTopics in Complex Analysis

Credits: 1-3 Grading Method: Regular,
Audit

Advanced topics of current interest.

Contact department for information to register for this course.

MATH898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

MATH899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

MEES Marine-Estuarine-Environmental Sciences Spring 2016

MEES498T Topics in Marine-Estuarine-Environmental Sciences; Marine and Environmental Biotechnology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Lecture and/or laboratory series organized to study a selected area of marine-estuarine-environmental sciences not otherwise considered in formal courses.

0101	Jum Sook Chung	Seats (Total: 20)
	Contact instructor or department for details.	

MEES608C Seminar in Marine-Estuarine-Environmental Sciences; Diseases in Chesapeake Bay Fisheries

Credits: 2 Grading Method: Regular,
Audit

Taught at IMET on the Interactive Video Network.

0101	Eric Schott	Seats (Total: 16)
	F 9:00am - 10:50am	HJP 1213B

MEES608L Seminar in Marine-Estuarine-Environmental Sciences; Molecular Microbial Ecology

Credits: 2 Grading Method: Regular,
 Audit

Taught at the Institute of Environmental Technology and on the Interactive Video Network.

0101	Feng Chen, Russell Hill	Seats (Total: 15)
	Th 3:30pm - 5:30pm	HJP 1213B

MEES608N Seminar in Marine-Estuarine-Environmental Sciences; Crustacean Biology and Fisheries

Credits: 2 Grading Method: Regular,
 Audit

0101	Bradley Stevens	Seats (Total: 12)
	TuTh 2:00pm - 2:50pm	HJP 1213C

MEES608Q Seminar in Marine-Estuarine-Environmental Sciences; Climate Change and Ecosystem Response in Polar Regions

Credits: 2 Grading Method: Regular,
 Audit

Taught at Chesapeake Biological Laboratory on the Interactive Video Network.

0101	Jacqueline Grebmeier, Laura Lapham, Lee Cooper	Seats (Total: 15)
	M 3:00pm - 5:00pm	HJP 1213C

MEES608R Seminar in Marine-Estuarine-Environmental Sciences; Applied Bayesian Statistics

Credits: 1 Grading Method: Regular,
 Audit

Taught at Chesapeake Biological Laboratories and on the Interactive Video Network.

0101	Dong Liang	Seats (Total: 30)
	W 11:30am - 12:30pm	HJP 1213C

MEES617 Hydrological Effects of Land Use Change

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Statistics course and hydrology course or permission of instructor.

Detailed examination of the catchment-scale hydrological effects attributable to major land use and land cover alterations, including both anthropic and non-anthropoc disturbances.

Taught at Appalachian Laboratory on the Interactive Video Network.

0101	Keith Eshleman	Seats (Total: 15)
	TuTh 10:00am - 11:30am	HJP 1213B

MEES631 Fish Ecology

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor.

Study of the interrelationships between individuals, their communities and environment. Explores the environmental biology of fish, feeding ecology, energetics and growth, population biology, reproduction and life history, and population and community interactions.

Taught at Chesapeake Biological Laboratory on the Interactive Video Network.

0101	David Secor, Thomas Miller	Seats (Total: 15)
	MW 10:00am - 11:30am	HJP 1213B

MEES661 Physics of Estuarine and Marine Environments

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed one year of physics coursework; and must have completed one year of calculus coursework. Or permission of instructor.

General introduction to the physical oceanography of estuarine and marine systems. Physical characteristics of seawater, heat and mass transport, major ocean currents, basic dynamical oceanography, surface waves, tides, turbulence, sediment transport, estuarine circulation.

Course is taught at the Horn Point Laboratory and on the Interactive Video Network.

0101	William Boicourt, Victoria Coles	Seats (Total: 25)
	TuTh 1:00pm - 2:30pm	HJP 1213B

MEES681 Advanced Ecological Design

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MATH220 and PHYS121; and (CHEM131; or students who have taken courses with comparable content may contact the department). Or permission of instructor. Also offered as: ENST481, ENST681. Credit only granted for: ENST481, ENST681, or MEES681.

An advanced survey course on the field of ecological design. Principles of design are illustrated with case studies from biologically-based waste treatment systems, ecosystem management and sustainable development.

0101	Stephanie Lansing	Seats (Total: 20)
	TuTh 9:30am - 10:45am	HJP 1213C

MEES698J Special Topics in Marine-Estuarine-Environmental Sciences; Advanced Industrial Ecology

Credits: 3 Grading Method: Regular,
Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Also offered as ENST443 and ENST643. Credit granted for ENST443, ENST643, or MEES698J.

0101	Patrick Kangas	Seats (Total: 20)	
	M 11:00am - 11:50am	ANS 0422	
	W 11:00am - 2:50pm	ANS 0538	Lab

MEES698T Special Topics in Marine-Estuarine-Environmental Sciences; Marine and Environmental Biotechnology

Credits: 4 Grading Method: Regular,
Audit

Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.

Taught at IMET and on the Interactive Video Network with participation by faculty from UMBC, UMB, and UMCES.

0101	Jum Sook Chung	Seats (Total: 20)
Contact instructor or department for details.		

MEES699 Special Problems in Marine-Estuarine-Environmental Sciences

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Research on specialized topics under the direction of individual faculty members.

Contact department for information to register for this course.

MEES708I Advanced Topics in Marine-Estuarine-Environmental Science; Isotope Biogeochemical Modeling

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at Chesapeake Biological Laboratory on the Interactive Video Network.

0101	Kelly Kilbourne	Seats (Total: 15)
	MW 8:30am - 10:00am	HJP 1213B

MEES708L Advanced Topics in Marine-Estuarine-Environmental Science; Ecological Forecasting in Practice

Credits: 1 Grading Method: Regular,
Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

0101	William Dennison	Seats (Total: 8)
	M 1:00pm - 1:50pm	HJP 1213C

MEES708M Advanced Topics in Marine-Estuarine-Environmental Science; Environmental Statistic II

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at Chesapeake Biological Laboratory on the Interactive Video Network. The course covers time series, spatial statistics, and generalized mixed effect methods for environmental scientists.

0101	Dong Liang, Viacheslav Lyubchich	Seats (Total: 30)
	TuTh 8:30am - 10:00am	HJP 1213B

MEES708P Advanced Topics in Marine-Estuarine-Environmental Science; Socio-Environmental Synthesis and Sustainability Research

Credits: 3 Grading Method: Regular,
Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Also offered as ENTM788P. Credit granted for MEES708P or ENTM788P.

0101	Jampel Dell'Angelo, Matthew LaFevor, David Hawthorne W 1:00pm - 4:00pm	Seats (Total: 20) HJP 1213C
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MEES708Q Advanced Topics in Marine-Estuarine-Environmental Science; Analytical Techniques in Environmental Chemistry

Credits: 3 Grading Method: Regular,
 Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

This course will be taught at the Chesapeake Biological Laboratory and NOT offered over IVN.

0101	Michael Gonsior, Laura Lapham F 1:00pm - 4:00pm	Seats (Total: 8) Location: TBA
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MEES708R Advanced Topics in Marine-Estuarine-Environmental Science; Population Ecology

Credits: 4 Grading Method: Regular,
 Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

Taught at University of Maryland Eastern Shore on the interactive Video.

0101	Douglas Ruby MW 3:00pm - 5:00pm	Seats (Total: 15) HJP 1213B
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MEES708T Advanced Topics in Marine-Estuarine-Environmental Science; Science Visualization

Credits: 2 Grading Method: Regular,
 Audit

Lectures, experimental courses and other specialized graduate training in various relevant disciplines.

0101	William Dennison Th 3:30pm - 5:30pm	Seats (Total: 15) HJP 1213C
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MEES743 Aquatic Toxicology

Credits: 3 Grading Method: Regular,
 Audit

Comprehensive course in which a definitive description of basic concepts and principles, laboratory testing and field situations, as well as examples of typical data and their interpretation and use by industry and water resource managers, will be discussed. The toxicological action and fate of environmental pollutants will be examined in aquatic ecosystems, whole organisms and at the cellular, biochemical and molecular levels.

Taught at Chesapeake Biological Laboratory on the interactive Video Network.

0101	Carys Mitchelmore	Seats (Total: 15)
	MW 11:30am - 1:00pm	Location: TBA

MEES799 Masters Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

MEES898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MEES899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

MIEH Maryland Institute for Applied Environmental Health

Spring 2016

MIEH240 Global Health Projects: Addressing Health Needs with a focus on Reciprocity and Relationships

Credits: 3 Grading Method: Regular

General Education: DSHS

Explore the needs of global communities, design interventions, and reflect on the potential outcomes in improving health in the communities served, while also focusing on students' own subjective experiences. Students will explore their roles as learners and the role of community members as local experts.

0101	Elisabeth Maring	Seats (Total: 10)
	F 9:00am - 11:50am	SPH 0307

MIEH300 A Public Health Perspective: Introduction to Environmental Health

Credits: 3 Grading Method: Regular

Prerequisite: CHEM131 and CHEM132. Restriction: Junior standing or higher. And must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.

Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. The Environmental health field is a broad, multi-disciplinary field. Environmental health scientists face complex problems requiring multi-disciplinary approaches. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.

0101	Devon Payne-Sturges	Seats (Total: 60)
	MWF 9:00am - 9:50am	SPH 1312
<i>Restricted to College Park Students in the Public Health Science major (code 12140).</i>		

MIEH309

Environmental Health Research

Credits: 1-3 Grading Method: Regular

This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner	Seats (Total: 10)
	Contact instructor or department for details.	
0202	Amir Sapkota	Seats (Total: 10)
	Contact instructor or department for details.	
0203	Amy Sapkota	Seats (Total: 10)
	Contact instructor or department for details.	
0204	Donald Milton	Seats (Total: 10)
	Contact instructor or department for details.	
0205	Robin Puett	Seats (Total: 10)
	Contact instructor or department for details.	

0206	Sacoby Wilson	Seats (Total: 10)
	Contact instructor or department for details.	
0207	Michael Grantham	Seats (Total: 10)
	Contact instructor or department for details.	
0208	Lesliam Quiros Alcala	Seats (Total: 10)
	Contact instructor or department for details.	
0209	Devon Payne-Sturges	Seats (Total: 10)
	Contact instructor or department for details.	
0210	Muhiuddin Haider	Seats (Total: 10)
	Contact instructor or department for details.	

MIEH330 Environmental Justice, Racism, and Environmental Health Disparities: How where you live can kill you

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: MIEH210; MIEH330. Formerly: MIEH210.

Introduction of environmental justice history, theory and science, with discussion of linkages between the built environment and environmental injustice. Examination of how the built environment can lead to adverse health conditions and racial/ethnic health disparities.

0101	Sacoby Wilson	Seats (Total: 35)
	TuTh 12:30pm - 1:45pm	SPH 0302

MIEH400 Introduction to Global Health

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300. Restriction: Must be in Public Health Science program; or permission of SPHL-School of Public Health. And must have earned a minimum of 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

0101	Greg Raspanti	Seats (Total: 60)
	W 4:00pm - 6:30pm	PLS 1130
<i>Restricted to College Park Students in the Public Health Science major (code 12140).</i>		
SG91	Gretchen De Silva	Seats (Total: 50)
	M 2:00pm - 4:50pm	Location: TBA
<i>Restricted to Shady Grove Students in the Public Health Science major (code 12140).</i>		

MIEH480

Introduction to Occupational Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MIEH300. Recommended: BSCI201; and EPIB301. Restriction: Must be in a major in SPHL-School of Public Health.

An introduction to the field of occupational health and safety. Introduction to basic concepts in occupational safety and health, as well as the methods used to anticipate, recognize, evaluate, and control environmental factors or stresses arising in or from the workplace. In addition to instructor-led lectures, guest speakers will be invited to discuss case studies and/or discuss workplace hazards unique to specific populations.

0101	Lesliam Quiros Alcala	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	BPS 1238
SG91	Billy McArthur	Seats (Total: 40)
	M 5:00pm - 7:50pm	Location: TBA
<i>Restricted to Shady Grove students in the Public Health Science major (12140).</i>		

MIEH600

Foundations of Environmental Health

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.

Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.

0101	Rachel Goldstein	Seats (Total: 25)
	F 1:00pm - 3:45pm	SPH 0305
<i>A minor portion of the lectures will be online.</i>		

MIEH609**Methods in Toxicology**

Credits: 1-3

Grading Method: Regular,
Audit

This research-based rotation in toxicology and environmental health will provide doctoral students with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0201	Paul Turner	Seats (Total: 5)
	Contact instructor or department for details.	
0202	Amir Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0203	Amy Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0204	Donald Milton	Seats (Total: 5)
	Contact instructor or department for details.	
0205	Robin Puett	Seats (Total: 5)
	Contact instructor or department for details.	
0206	Sacoby Wilson	Seats (Total: 5)
	Contact instructor or department for details.	
0207	Lesliam Quiros Alcala	Seats (Total: 5)
	Contact instructor or department for details.	
0208	Devon Payne-Sturges	Seats (Total: 5)
	Contact instructor or department for details.	

MIEH610**Global Health Program Planning and Evaluation**

Credits: 3

Grading Method: Regular,
Audit

Recommended: MIEH605. Credit only granted for: MIEH610, SPHL610 or SPHL698D. Formerly: SPHL698D and SPHL610.

Development of health program and evaluation plans to address critical health problems in international settings, especially transitional or in-conflict countries. Emphasis on linking a tactical program plan to overall health problems of a nation, to include the policy and economic issues involved in assessment, implementation and evaluation.

0101	Paul Robinson	Seats (Total: 10)
	W 5:00pm - 7:30pm	SPH 2234CC
PCG1	Paul Robinson	Seats (Total: 10)
	W 5:00pm - 7:30pm	SPH 2234CC

MIEH688 Seminar in the Maryland Institute for Applied Environmental Health: Current Topics in Environmental Health

Credits: 1 Grading Method: Sat-Fail

Invited and in-house research presentations from guest scientists, faculty members, and students, and critical analysis of journal articles on current topics in environmental and occupational health.

0101	Donald Milton	Seats (Total: 10)
	Contact instructor or department for details.	

MIEH720 Principles of Toxicology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MIEH600. Recommended: Must have completed some coursework in chemistry and/or biology.

Overview of toxicology, including exposure pathways, toxicokinetics, dermal toxicants, carcinogens, and genetic, reproductive, immuno-, nuero-, target organs, complex mixtures, structure-activity analysis, and determinants of hypo- and hyper-susceptibility. Case studies of global national and regional interest.

0101	Paul Turner	Seats (Total: 25)
	Th 1:00pm - 3:45pm	SPH 0305

MIEH760 Spatial Epidemiology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed an Introduction biostatistics course. Recommended: Completion of a graduate epidemiology course, or environmental health course, or geography/GIS course.

The purpose of this survey course is to provide students with an introduction to spatial resources and methods specific to public health, with an emphasis on epidemiology and environmental applications. Students will be introduced to spatial resources, concepts, and tools relevant to public health research and practice. They will acquire skills to interpret, evaluate, and design basic public health spatial research projects; and to conduct simple spatial analyses.

0101	Robin Puett	Seats (Total: 15)
	Th 9:00am - 11:45am	SPH 1242A

MIEH770 Law and Policy in Environmental Health

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MIEH600.

Overview of laws that affect the environment, and the various ways in which businesses are regulated by the government in the interest of protecting the environment. International, Federal, state, and local laws and regulations related to the protection of human health and the regulation of environmental containments, including biological, physical and chemical factors affecting community health. Examination of the interactions between and differing responsibilities of various agencies enforcing environmental laws and regulations.

0101	Sacoby Wilson	Seats (Total: 20)
	Tu 4:00pm - 6:45pm	SPH 0303

MIEH771 Exposure Assessment of Environmental Hazards

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MIEH600 and EPIB650.

Approaches and methods for determining exposure to environmental contaminants. Biomonitoring and genetic methods to detect recent exposures. Optimizing exposure assessment.

0101	Amir Sapkota	Seats (Total: 25)
	M 4:00pm - 6:45pm	SPH 0227

MIEH785 Internship in Public Health

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

0101	Sacoby Wilson	Seats (Total: 5)
	Contact instructor or department for details.	

MIEH786

Capsone Project in Public Health

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

0201	Paul Turner	Seats (Total: 5)
	Contact instructor or department for details.	
0202	Amir Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0203	Amy Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0204	Donald Milton	Seats (Total: 5)
	Contact instructor or department for details.	
0205	Robin Puett	Seats (Total: 5)
	Contact instructor or department for details.	
0206	Sacoby Wilson	Seats (Total: 5)
	Contact instructor or department for details.	
0207	Michael Grantham	Seats (Total: 5)
	Contact instructor or department for details.	
0208	Lesliam Quiros Alcala	Seats (Total: 5)
	Contact instructor or department for details.	
0209	Devon Payne-Sturges	Seats (Total: 5)
	Contact instructor or department for details.	
0210	Muhiuddin Haider	Seats (Total: 5)
	Contact instructor or department for details.	

MIEH788 **Critical Readings in Environmental Health**

Credits: 1-3 Grading Method: Regular,
Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

Contact department for information to register for this course.

MIEH789 **Independent Study**

(Perm req) Credits: 1-6 Grading Method: Regular,
Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

MIEH898 **Pre-Candidacy Research**

(Perm req) Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MIEH899 **Doctoral Dissertation Research**

(Perm req) Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

MLAW **MPower Undergraduate Law Programs** **Spring 2016**

MLAW150 **Law in a Just Society**

Credits: 3 Grading Method: Regular

Restriction: Must be in the College Park Scholars - Justice and Legal Thought program.

An exploration of the theoretical questions relating to such fundamental questions of jurisprudence as "what is law?" and "how can law be deployed as both an enemy and ally of justice?"

Restricted to Justice and Legal Thought Scholars Students only.

0101	Robert Koulish, Michael Van Alstine	Seats (Total: 23)	
	TuTh 10:00am - 10:50am	CCC 1100	
	F 9:00am - 9:50am	CCC 1200	Discussion
0102	Robert Koulish, Michael Van Alstine	Seats (Total: 23)	
	TuTh 10:00am - 10:50am	CCC 1100	
	F 10:00am - 10:50am	CCC 1200	Discussion
0103	Robert Koulish, Michael Van Alstine	Seats (Total: 24)	
	TuTh 10:00am - 10:50am	CCC 1100	
	F 11:00am - 11:50am	CCC 1200	Discussion

MLAW358C Selected Topics in Law and Society; The Supreme Court and the Constitution

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

Focuses on the role of the Supreme Court in interpreting and applying the Constitution. Students will explore various theories of constitutional interpretation by examining the opinions and judicial philosophies of current Supreme Court justices. The class will then apply those theories to a series of current constitutional debates.

0101	Jana Singer	Seats (Total: 28)	
	TuTh 11:00am - 12:15pm	CSI 3120	

MLAW358R Selected Topics in Law and Society; Risk, Security and the Rule of Law

Credits: 3 Grading Method: Regular

An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.

From a political, criminological and socio-legal perspective the course addresses what social and legal dilemmas political and legal institutions face while governing security, guaranteeing safety and handling (inter)national crises on the one hand, and protecting the rule of law in a democratic yet complex society on the other hand.

0101	Brandee Pettus, Maartje van der Woude	Seats (Total: 25)	
	Th 4:00pm - 6:30pm	JMZ 2207	

MLAW374 Freddie Gray's Baltimore

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Examining the social context for police abuse and urban uprising, this course will investigate issues pertaining to Freddie Gray's death including in areas of: criminal justice, police-minority community relations, housing, schools, and access to health care.

0101	Robert Koulish	Seats (Total: 85)
	Meets January 25, 2016 - March 25, 2016	
	M 5:00pm - 7:00pm	SHM 2102

MLAW377 The Legal Profession

Credits: 3 Grading Method: Regular

Restriction: Must be in the Law and Society Minor.

Designed to introduce students to a variety of legal fields. The course is designed to combine social science literature about the legal profession with real world experiences with lawyers and legal workers. It will address questions about law as a profession, field of advocacy and as a business.

0101	Michael Spivey	Seats (Total: 75)
	Tu 4:00pm - 6:20pm	TYD 1102

MLAW388 Law and Society Internship

Credits: 1-4 Grading Method: Regular

Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.

Restricted to students within the Law and Society minor.

0101	Brandee Pettus	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

MLAW404 Law & Society Capstone: Implications of Technology on Law & Society

Credits: 3 Grading Method: Regular

Restriction: Student must be enrolled in the Law and Society minor.

An exploration of the implications of technology on law and society from a variety of perspectives. Significant issues will be taken from contemporary scholarship and court cases.

0101	Karen Rothenberg, Robert Koulish	Seats (Total: 75)
	Tu 12:30pm - 3:20pm	TYD 2109

MLSC MD Language Science Ctr Spring 2016

MLSC410 Computational Approaches in Language Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: LING499J, MLSC410, or CMSC289J.

Interdisciplinary survey of areas of language science where computational methods play a major role. Topics include natural language processing, automatic speech recognition, models of human language processing, and models of human language disorders. Students are expected to have previously taken at least two courses in either language science or computer science, but need not have background in both.

Also offered as CMSC289J and LING499J.

0101	Naomi Feldman	Seats (Total: 13)
	TuTh 9:30am - 10:45am	JMZ 3120

MOCB Molecular and Cell Biology Spring 2016

MOCB699 Laboratory Rotation

(Perm req) Credits: 2-3 Grading Method: Sat-Fail

Laboratory experience in molecular-cell biology.

Contact department for information to register for this course.

MOCB708C Advanced Topics in Molecular and Cell Biology; Lipid Metabolism

Credits: 1-4 Grading Method: Regular,
Audit

Lectures, experimental courses, and other special instructions in various areas of molecular or cell biology.

0101	Liqing Yu	Seats (Total: 20)
	MW 10:00am - 11:15am	ANS 0402

MOCB898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

MOCB899

Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Sat-Fail

Contact department for information to register for this course.

MUED Music Education

Spring 2016

MUED155

Fundamentals for the Classroom Teacher

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in one of the following programs (Early Childhood Education; Elementary Education) ; or must be a Pre-Elementary Education major; or must be a Pre-Early Childhood Education major.

The fundamentals of music theory and practice, related to the needs of the classroom and the kindergarten teacher.

0101	Jessica Kendal	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2160

MUED187

Pre-Professional Experiences II

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUED186. Restriction: Must be in Music Education program.

Regular on-site school visitation at elementary, middle and high school levels arranged to expand student understandings and reflections of music instruction in classroom settings.

0101	Glen Brumbach	Seats (Total: 25)
	F 1:00pm - 1:50pm	PAC 2130A

MUED214

String Technique and Pedagogy II

(Perm req)

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUED213. Restriction: Must be a major in Music Education-instrumental option. Credit only granted for: MUED114 or MUED214. Formerly: MUED114.

A study in violin, viola, cello and bass technique and pedagogy; intermediate to advanced level. Emphasizes group process playing and teaching, chamber music and individual technique development.

0101	Gene Pohl	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2540

MUED216 Percussion Technique and Pedagogy

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in Music Education program.

Playing experience on percussion instruments. Historical and acoustical background. Scoring for percussion. Principles of improvisation. Basic concepts of teaching. Methods and materials. Techniques of individual and class instruction.

0101	Lee Hinkle	Seats (Total: 15)
	MWF 8:00am - 8:50am	PAC 2540

MUED222 Classroom Instruments Technique and Pedagogy

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUED187 and MUED186. Restriction: Must be in Music Education program.

An introduction to the fundamentals of classroom instruments technique and pedagogy for the choral and general teacher.

0101	Jessica Kendal	Seats (Total: 15)
	W 12:00pm - 1:50pm	PAC 2130A

MUED311 Teaching Elementary Instrumental Music I

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUED187. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to teach fundamental musical skills at the elementary level.

0101	Michael Hewitt	Seats (Total: 15)
	MWF 10:00am - 10:50am	PAC 2540

MUED411 Teaching Elementary Instrumental Music II

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUED320 and MUED311. Corequisite: MUED489. Restriction: Must be in Music Education program.

Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and/or maintain an exemplary curricular-oriented, research-based, comprehensive elementary instrumental music program.

0101	Stephanie Prichard	Seats (Total: 15)
	Tu 11:00am - 11:50am	PAC 2540
	Th 9:00am - 11:50am	PAC 2540

MUED472 Teaching Choral Music

(Perm req)

Credits: 2 Grading Method: Regular, General Education: DSSP
Audit

Prerequisite: MUED471. Corequisite: MUED489. Restriction: Must be in Music Education program.

Preparation for teaching choral classes through the integration of conducting technique, vocal pedagogy, knowledge of repertoire, and the application of appropriate instructional strategies in the context of peer teaching and field experience assignments.

0101	Kenneth Elpus	Seats (Total: 15)
	W 4:00pm - 6:00pm	PAC 2130A

MUED473 Teaching General Music for Instrumentalists

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUED311; and MUED320. Restriction: Must be in Music Education program.

Introduction to current trends, materials and approaches in general music instruction.

0101	Jessica Kendal	Seats (Total: 20)
	Tu 9:00am - 10:40am	PAC 2130A

MUED474 Field Experiences: Pre-Student Teaching

(Perm req)

Credits: 1 Grading Method: Regular

Prerequisite: MUED420 and MUED411; or (MUED472 and MUED471). Restriction: Permission of ARHU-School of Music department; and senior standing.

Field experiences to fulfill teaching requirements in K-12 music teacher education program.

0101	Michael Hewitt	Seats (Total: 15)
	Tu 7:30pm - 8:30pm	PAC 2160

MUED484 Student Teaching in Elementary School: Music

(Perm req)

Credits: 4-6 Grading Method: Sat-Fail

Corequisite: MUED494. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfills elementary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

0101	Michael Hewitt	Seats (Total: 15)
	Contact instructor or department for details.	

MUED489C Field Experiences

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Series of field experiences in K-12 settings.

Prerequisite: permission of department. Restricted to music education majors only. Repeatable to 6 credits.

0101	Kenneth Elpus	Seats (Total: 10)
	Th 9:00am - 12:00pm	PAC 2130A

MUED489I Field Experiences

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Series of field experiences in K-12 settings.

Prerequisite: permission of department. Restricted to music education majors only. Repeatable to 6 credits.

0101	Stephanie Prichard	Seats (Total: 15)
	Contact instructor or department for details.	

MUED494 Student Teaching in Secondary School: Music

(Perm req)

Credits: 4-6 Grading Method: Sat-Fail

Corequisite: MUED484. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.

Fulfill secondary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.

Students must pay a \$750.00 student teaching fee.

0101	Michael Hewitt	Seats (Total: 15)
Contact instructor or department for details.		

MUED690 Research Methods in Music and Music EducationCredits: 3 Grading Method: Regular,
Audit

The application of methods of research to problems in the fields of music and music education. The preparation of bibliographies and the written exposition of research projects in the area of the student's major interest.

0101	Kenneth Elpus	Seats (Total: 10)
	M 5:30pm - 8:00pm	PAC 2130A

MUSC School of Music**Spring 2016**

MUSC099 Performance Attendance

Credits: 0 Grading Method: Sat-Fail

Performance attendance laboratory for undergraduate music majors.

0101	Zachariah Matteson	Seats (Total: 150)
Contact instructor or department for details.		

MUSC102B Class PianoCredits: 2 Grading Method: Regular,
Pass-Fail, Audit

Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.

0101	David Henry	Seats (Total: 14)
	TuTh 9:30am - 10:45am	PAC 1123

MUSC103 **Beginning Class Piano II**

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Prerequisite: MUSC102; or permission of ARHU-School of Music department.

Functional piano training for beginners. Development of techniques useful for school and community playing. Basic piano techniques; chord, arpeggio, and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition, and playing by ear. MUSC 103 is a continuation of MUSC 102; elementary repertoire is begun.

Limited to music majors.

0101	David Henry	Seats (Total: 14)
	TuTh 11:00am - 12:15pm	PAC 1123
0201	Mijail Tumanov Pavlov	Seats (Total: 14)
	MWF 11:00am - 11:50am	PAC 1123
0301	Mijail Tumanov Pavlov	Seats (Total: 14)
	MWF 1:00pm - 1:50pm	PAC 1123

MUSC106 **Beginning Classical Guitar**

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Introduction to classical guitar notation, technique, literature and performance. No previous musical experience required.

0101	Gerard Kunkel	Seats (Total: 12)
	MW 11:00am - 11:50am	PAC 1230

MUSC126 **Vocal Diction: English and Latin**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department.

Augmentation of private voice study. Phonetics and diction for singers of English and Latin vocal literature.

0101	Diba Alvi	Seats (Total: 15)
	TuTh 11:00am - 11:50am	PAC 3164

MUSC128 Sight Reading For Pianists

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

A course to give the piano major an opportunity to develop proficiency in sight reading at the keyboard.

0101	Katerina Zaitseva	Seats (Total: 10)
	MW 10:00am - 10:50am	PAC 2201

MUSC129A Ensemble; Chamber Strings

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Contact instructor to make arrangements. For Music majors only.

0101	David Salness	Seats (Total: 45)
	TuTh 11:00am - 12:15pm	PAC 2201 Lab

MUSC129B Ensemble; Chamber Woodwinds

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Contact instructor to make arrangements. For Music majors only.

0101	Mark Hill	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	PAC 2201 Lab
0901	James Homme	Seats (Total: 10)
	TuTh 11:00am - 12:15pm	PAC 2201 Lab

1001	Michele Von Haugg TuTh 11:00am - 12:15pm	Seats (Total: 10) PAC 2201	Lab
1101	Samuel Fraser TuTh 11:00am - 12:15pm	Seats (Total: 10) PAC 2201	Lab
1201	Joshua Blumenthal TuTh 11:00am - 12:15pm	Seats (Total: 10) PAC 2201	Lab

MUSC129C Ensemble; Chamber Brasses

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

For Music majors only.

0101	Gregory Miller TuTh 11:00am - 12:15pm	Seats (Total: 30) PAC 2201	Lab
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MUSC129G Ensemble; Balinese Gamelan

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	I Suadin Th 7:00pm - 8:30pm	Seats (Total: 20) PAC 1230	Lab
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MUSC129K Ensemble; Japanese Koto

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kyoko Okamoto Tu 5:30pm - 7:00pm	Seats (Total: 10) PAC 3160	Lab
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MUSC129L Ensemble; Advanced Japanese Koto

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Prerequisite: Contact instructor to make arrangements.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC129P Ensemble; Percussion

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Lee Hinkle	Seats (Total: 15)	
	F 3:30pm - 6:00pm	PAC 2540	Lab
	W 5:00pm - 7:00pm	PAC 2540	Lab

MUSC129Q Ensemble; Korean Percussion Ensemble

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Sebastian Wang	Seats (Total: 17)	
	Th 7:00pm - 8:30pm	PAC 2170	Lab

MUSC140 Music Fundamentals I

Credits: 3 Grading Method: Regular, Audit CORE: HA General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

0101	Eric Pazdziora MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 13) PAC 2168 PAC 1108	Discussion
0102	Eric Pazdziora MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 12) PAC 2168 PAC 1108	Discussion
0201	Eric Pazdziora MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 13) PAC 2168 PAC 1108	Discussion
0202	Eric Pazdziora MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 12) PAC 2168 PAC 1108	Discussion

MUSC151

(Perm req)

Theory of Music II

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in MUSC150.

A continuation of MUSC150, including study of more advanced harmonic techniques of the eighteenth century, such as modulation and chromatic harmonies. Emphasis on sight singing, ear training, analysis and compositional skills.

0101	Richard Layton MWF 8:00am - 8:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2160	Lab
0102	Richard Layton MWF 8:00am - 8:50am TuTh 9:30am - 10:20am	Seats (Total: 6) PAC 2160 PAC 2160	Lab
0201	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2164	Lab
0202	Richard Layton MWF 9:00am - 9:50am TuTh 8:25am - 9:15am	Seats (Total: 6) PAC 2160 PAC 2168	Lab

0301	Jared Kenlon	Seats (Total: 6)	
	MWF 10:00am - 10:50am	PAC 2160	
	TuTh 9:30am - 10:20am	PAC 2164	Lab
0302	Jared Kenlon	Seats (Total: 6)	
	MWF 10:00am - 10:50am	PAC 2160	
	TuTh 9:30am - 10:20am	PAC 2168	Lab

MUSC203

Intermediate Class Piano II

(Perm req)

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC202; or must have equivalent piano training.

Advanced keyboard techniques. Continuation of skills introduced in MUSC202. Transposition, modulation and sight reading; methods of teaching functional piano. Development of style in playing accompaniments and in playing for community singing. More advanced repertory.

0101	Katerina Zaitseva	Seats (Total: 10)	
	MWF 9:00am - 9:50am	PAC 1123	

MUSC204

Popular Music in Black America

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSHU,
DVUP

Traces black popular music in the U.S. with a special focus on spirituals, ragtime, the blues, early jazz, R&B, Motown, funk, soul, and rap. Examines how these styles have been borrowed by the American music industry.

0101	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 9:00am - 9:50am	PAC 2164	Discussion
0102	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 10:00am - 10:50am	PAC 2164	Discussion
0103	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 11:00am - 11:50am	PAC 2164	Discussion

0104	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 9:00am - 9:50am	PAC 3164	Discussion
0105	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 10:00am - 10:50am	PAC 3164	Discussion
0106	Nicholas Tochka	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	SHM 2102	
	F 11:00am - 11:50am	PAC 3164	Discussion

MUSC205

History of Popular Music, 1950-Present

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA General Education: DSHU

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

0101	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 9:00am - 9:50am	PAC 2168	Discussion
0102	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 10:00am - 10:50am	PAC 2168	Discussion
0103	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 11:00am - 11:50am	PAC 2168	Discussion
0104	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 12:00pm - 12:50pm	PAC 2168	Discussion
0105	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 1:00pm - 1:50pm	PAC 2168	Discussion

0106	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 2:00pm - 2:50pm	PAC 2168	Discussion
0107	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 12:00pm - 12:50pm	PAC 3164	Discussion
0108	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 1:00pm - 1:50pm	PAC 3164	Discussion
0109	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 2:00pm - 2:50pm	PAC 3164	Discussion
0110	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 9:00am - 9:50am	PAC 2200	Discussion
0111	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 10:00am - 10:50am	PAC 2200	Discussion
0112	Robert Lintott	Seats (Total: 25)	
	MW 12:00pm - 12:50pm	ARC 0204	
	F 11:00am - 11:50am	PAC 2200	Discussion

MUSC210

The Impact of Music on Life

Credits: 3

Grading Method: Regular

CORE: HA, D

General Education: DSHU,
DVUP

Credit only granted for: MUET210 or MUSC210. Formerly: MUET210.

Music as a part of culture. Materials drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on the study of music.

0101	Fernando Rios	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	ARC 0204	
	F 9:00am - 9:50am	PAC 1815	Discussion

0102	Fernando Rios MW 1:00pm - 1:50pm F 10:00am - 10:50am	Seats (Total: 25) ARC 0204 PAC 1815	Discussion
0103	Fernando Rios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) ARC 0204 PAC 1815	Discussion
0104	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) ARC 0204 PAC 1815	Discussion
0105	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ARC 0204 PAC 1815	Discussion
0106	Fernando Rios MW 1:00pm - 1:50pm F 2:00pm - 2:50pm	Seats (Total: 25) ARC 0204 PAC 1815	Discussion
0107	Fernando Rios MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) ARC 0204 ARC 1105	Discussion
0108	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) ARC 0204 ARC 1105	Discussion
0109	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ARC 0204 ARC 1105	Discussion
0110	Fernando Rios MW 1:00pm - 1:50pm F 12:00pm - 12:50pm	Seats (Total: 25) ARC 0204 EDU 1121	Discussion
0111	Fernando Rios MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) ARC 0204 EDU 1121	Discussion

0112	Fernando Rios	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	ARC 0204	
	F 2:00pm - 2:50pm	EDU 1121	Discussion

MUSC215

World Popular Musics and Identity

Credits: 3 Grading Method: Regular, Audit CORE: HA, D General Education: DSHU, DVUP

Credit only granted for: MUET200 or MUSC215. Formerly: MUET200.

Focus on popular musics in different cultures with an emphasis on cross-cultural comparisons and analysis of how musics and identity intersect.

0101	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 12:00pm - 12:50pm	SPH 1302	Discussion
0102	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 1:00pm - 1:50pm	SPH 1302	Discussion
0103	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 2:00pm - 2:50pm	SPH 1302	Discussion
0104	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 1:00pm - 1:50pm	HBK 1108	Discussion
0105	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 2:00pm - 2:50pm	HBK 1108	Discussion
0106	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 3:00pm - 3:50pm	HBK 1108	Discussion
0107	Laura Schnitker	Seats (Total: 20)	
	MW 12:00pm - 12:50pm	LEF 2205	
	F 11:00am - 11:50am	JMP 1202	Discussion

0108	Laura Schnitker	Seats (Total: 20)		
	MW 12:00pm - 12:50pm	LEF 2205		
	F 12:00pm - 12:50pm	JMP 1202	Discussion	
0109	Laura Schnitker	Seats (Total: 20)		
	MW 12:00pm - 12:50pm	LEF 2205		
	F 1:00pm - 1:50pm	JMP 1202	Discussion	

MUSC220

Selected Musical Cultures of the World

Credits: 3

Grading Method: Regular

CORE: HA, D

General Education: DSHU,
DVUP

Credit only granted for: MUET220 or MUSC220. Formerly: MUET220.

A survey of selected musical cultures of the world, such as India, Japan, China, Indonesia, West Africa, Eastern Europe and the Near East.

0101	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 11:00am - 11:50am	PAC 3168	Discussion	
0102	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 12:00pm - 12:50pm	PAC 3168	Discussion	
0103	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 1:00pm - 1:50pm	PAC 3168	Discussion	
0104	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 11:00am - 11:50am	PAC 3160	Discussion	
0105	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 12:00pm - 12:50pm	PAC 3160	Discussion	
0106	Nicholas Tochka	Seats (Total: 20)		
	MW 10:00am - 10:50am	JMP 3201		
	F 1:00pm - 1:50pm	PAC 3160	Discussion	

MUSC226**Vocal Diction: French**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.

Augmentation of private voice study. Phonetics and diction for singers of French vocal literature.

0101	Diba Alvi	Seats (Total: 20)
	TuTh 2:00pm - 2:50pm	PAC 2164

MUSC229A**Ensemble; Symphony Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	James Ross	Seats (Total: 70)
	TuTh 3:30pm - 6:30pm	PAC 1230 Lab

MUSC229D**Ensemble; Wind Orchestra**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition. Contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 50)
	TuTh 3:30pm - 6:30pm	PAC 2540 Lab

MUSC229E**Ensemble; Wind Ensemble**

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition. Contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 75)	
	MWF 11:00am - 12:30pm	PAC 2540	Lab

MUSC229G Ensemble; Marching Band Repertoire

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Elijah Osterloh	Seats (Total: 60)	
	Th 7:00pm - 10:00pm	PAC 2540	

MUSC229J Ensemble; Jazz Ensemble

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Christopher Vadala	Seats (Total: 25)	
	MW 5:30pm - 7:15pm	PAC 1230	Lab
0201	Christopher Vadala	Seats (Total: 30)	
	MW 1:00pm - 2:15pm	PAC 1230	Lab
0301	Christopher Vadala	Seats (Total: 35)	
	M 7:30pm - 9:30pm	PAC 1230	Lab

MUSC229P Ensemble; Pep Band

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Elijah Osterloh	Seats (Total: 150)
	Contact instructor or department for details.	

MUSC229R Ensemble; Repertoire Orchestra

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	James Ross	Seats (Total: 50)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC229U Ensemble; University Band

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Open by audition. Contact instructor to make arrangements.

0101	Elijah Osterloh	Seats (Total: 150)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC229Z Ensemble; Jazz Combo

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Gerard Kunkel	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Thomas Baldwin	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Jeffrey Reed	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Brendan Schnabel	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC251 Advanced Theory of Music II

(Perm req)

Credits: 4 Grading Method: Regular,
Audit

Prerequisite: Minimum grade of C- in MUSC250.

A continuation of MUSC250, concentrating on late nineteenth-century chromatic harmony and an introduction to twentieth-century melody and harmony. Emphasis on sight singing, ear training, analysis and compositional skills.

0101	Daniel Zimmerman	Seats (Total: 6)
	TuTh 8:00am - 9:15am	PAC 3164
	MW 9:00am - 9:50am	PAC 3164 Lab
0102	Daniel Zimmerman	Seats (Total: 6)
	TuTh 8:00am - 9:15am	PAC 3164
	MW 10:00am - 10:50am	PAC 3164 Lab
0201	Thomas DeLio	Seats (Total: 6)
	TuTh 9:30am - 10:45am	PAC 3168
	MW 9:00am - 9:50am	PAC 2164 Lab
0202	Thomas DeLio	Seats (Total: 6)
	TuTh 9:30am - 10:45am	PAC 3168
	MW 9:00am - 9:50am	PAC 2168 Lab
0301	Daniel Zimmerman	Seats (Total: 6)
	TuTh 9:30am - 10:45am	PAC 3164
	MW 10:00am - 10:50am	PAC 2164 Lab

0302	Daniel Zimmerman	Seats (Total: 6)	
	TuTh 9:30am - 10:45am	PAC 3164	
	MW 10:00am - 10:50am	PAC 2168	Lab

MUSC269A Special Topics in Study Abroad II; Enhancing Spanish Language and Cultural Knowledge Through Music

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC269F Special Topics in Study Abroad II; Exploring Music and Society: Flamenco

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC269M Special Topics in Study Abroad II; Czech Music

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC289I Exploring the Power of Musical Performance in Social Engagement

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA, D General Education: DSHU,
DVUP, SCIS

0101	John Witzleben	Seats (Total: 60)
	TuTh 9:30am - 10:45am	PAC 2200

MUSC320 Music History II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC310; and permission of ARHU-School of Music department. Credit only granted for: MUSC230 or MUSC320. Formerly: MUSC230.

A historical study of Western music from 1600 to 1800.

0101	Richard King	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	PAC 2200	
	F 1:00pm - 1:50pm	PAC 2164	Discussion
0102	Richard King	Seats (Total: 25)	
	MW 2:00pm - 2:50pm	PAC 2200	
	F 2:00pm - 2:50pm	PAC 2164	Discussion

MUSC328 Introduction to Chamber Music for Pianists

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

A course to introduce the piano major to chamber music at a moderately difficult level. Class instruction will center on actual rehearsal and coaching geared toward performance, and will be supplemented by further experience in applied instrumental studios.

0101	Jessica McKee	Seats (Total: 10)	
	F 10:00am - 12:00pm	PAC 2126	

MUSC329A Ensemble; University of Maryland Chorale

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 80)	
	TuTh 4:30pm - 6:00pm	PAC 2201	Lab

MUSC329B Ensemble; Chamber Singers

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

ADD: Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 50)
	MW 3:00pm - 3:50pm	PAC 2201
	TuTh 3:30pm - 4:20pm	PAC 2201

MUSC329E Ensemble; Gospel Choir

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Anne Carswell	Seats (Total: 60)
	Th 7:00pm - 10:00pm	PAC 2201 Lab

MUSC329M Ensemble; Men's Chorus

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Edward Maclary	Seats (Total: 40)
	MWF 12:00pm - 12:50pm	PAC 1230

MUSC329O Ensemble; Opera Chorus

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Edward Maclary	Seats (Total: 30)
	F 4:00pm - 6:00pm	PAC 2170 Lab

MUSC329W Ensemble; Women's Chorus

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.

0101	Kenneth Elpus	Seats (Total: 60)
	MWF 12:00pm - 12:50pm	PAC 2201

MUSC369M Special Topics in Study Abroad III; Masterpieces of Italian Opera

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

MUSC379 Opera Workshop

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail

Open to music and non-music majors (by audition). Operatic production and performance, performance techniques and coaching, stage direction, set design, costume design and make-up. Repertory will include smaller operatic works, excerpts or scenes.

0101	Scott Crowne	Seats (Total: 15)
	MW 4:00pm - 6:00pm	PAC 2170

MUSC386 Experiential Learning

(Perm req)

Credits: 6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of ARHU-School of Music department. Restriction: Junior standing or higher.

Contact department for information to register for this course.

MUSC388 Music Internship

(Perm req)

Credits: 3 Grading Method: Regular

Pre-professional field work in music.

Prerequisite: permission of instructor.

0101	Lori DeBoy	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Michael Hewitt	Seats (Total: 5)
	Contact instructor or department for details.	

0301	Edward Maclary	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Richard Scerbo	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC389

Music Internship Analysis

(Perm req)

Credits: 1

Grading Method: Regular

Documentation and evaluation of field work experience.

0101	Lori DeBoy	Seats (Total: 5)
	Contact instructor or department for details.	
0201	Michael Hewitt	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Edward Maclary	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Richard Scerbo	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC400V

Music Pedagogy

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSP315; and permission of ARHU-School of Music department.

Conference course. A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.

0101	Diba Alvi	Seats (Total: 25)
	TuTh 9:30am - 10:45am	PAC 2201

MUSC436

Jazz: Then and Now

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Major styles and influential artists of the past 75 years of jazz.

0101	Patricia Vergara	Seats (Total: 20)
	MW 4:15pm - 5:30pm	PAC 3160

MUSC438E Area Studies in Ethnomusicology; Music of the Balkans

Credits: 3 Grading Method: Regular

Advanced study of musics in selected parts of the world.

0101	Nicholas Tochka	Seats (Total: 12)
	Th 3:30pm - 6:00pm	PAC 3110A

MUSC438M Area Studies in Ethnomusicology; Mexican and Mexican/American Music

Credits: 3 Grading Method: Regular

Advanced study of musics in selected parts of the world.

0101	Fernando Rios	Seats (Total: 12)
	M 3:30pm - 6:00pm	PAC 3110A

MUSC444 Wind and Percussion Literature

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of ARHU-School of Music department. Corequisite: MUSP420 or MUSP419.

Recital program notes and written projects in wind or percussion literature.

Contact department for information to register for this course.

MUSC445 Survey of the Opera

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC330 and MUSC331; or students who have taken courses with comparable content may contact the department.

A study of the music, librettos and composers of the standard operas.

0101	Dianne Goldman	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 3164

MUSC446 String Literature

(Perm req)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSP316; and permission of ARHU-School of Music department.

Recital program notes and written projects in string literature.

Contact department for information to register for this course.

MUSC448

Selected Topics in Music

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

MUSC448E

Selected Topics in Music; Symphonic Literature

(Perm req)

Credits: 3

Grading Method: Regular

0101

Dianne Goldman

Seats (Total: 12)

W 6:30pm - 9:00pm

PAC 3110A

MUSC448F

Selected Topics in Music; Style Analysis

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

0101

James Fry

Seats (Total: 15)

TuTh 9:30am - 10:45am

PAC 3160

MUSC448W

Selected Topics in Music; Instrumental Pedagogy

(Perm req)

Credits: 1

Grading Method: Regular,
Audit

Contact department for information to register for this course.

MUSC450

Musical Form

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC251.

A study of the principles of organization in music with emphasis on eighteenth and nineteenth century European music. Reading and analysis of scores exemplifying the musical forms.

0101	David Froom	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	PAC 2168

MUSC454 Jazz Improvisation II

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC453; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department. Credit only granted for: MUSC346 or MUSC454. Formerly: MUSC346.

Continuation of MUSC453 including scoring and transcription.

0101	Gerard Kunkel	Seats (Total: 5)
	Th 12:30pm - 3:00pm	PAC 1208

MUSC456 Jazz Arranging

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC455; and permission of ARHU-School of Music department. Credit only granted for: MUSC448N or MUSC456. Formerly: MUSC448N.

A comprehensive approach to jazz arranging. Topics to include chord scale theory, voicing techniques, part and score layout, and formal construction of an arrangement.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 2168

MUSC463 Applications in Music Technology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A hands-on study of computer hardware and software that makes use of the MIDI (Musical Instrument Digital Interface) specification. This protocol allows computers, synthesizers and various other devices to send and receive information about musical performance, notation and sound. The course focuses on two of the most frequently used applications on MIDI -- sequencing and music notation. Also included is an introduction to digital audio. No previous experience with computers is required. Ability to read music on a grand staff (treble and bass clef) is recommended.

0101	Geoffrey Sheil	Seats (Total: 16)
	Th 1:00pm - 3:30pm	PAC 1108

MUSC469F Orchestral Excerpts for String Players; Bass

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC469V Orchestral Excerpts for String Players; HARP

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 15)
	Contact instructor or department for details.	

MUSC470 Harmonic and Contrapuntal Practices of the Twentieth Century

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC251; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department.

A theoretical and analytical study of twentieth century materials.

0101	Mark Wilson	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 3168

MUSC490 Conducting

(Perm req)

Credits: 2 Grading Method: Regular

Prerequisite: MUSC251.

Vocal and instrumental baton techniques.

0101	Edward Maclary	Seats (Total: 12)
	MWF 11:00am - 11:50am	PAC 2201

0201	Edward Maclary, Gregory Graf	Seats (Total: 12)
	MWF 1:00pm - 1:50pm	PAC 2201

MUSC491 Conducting II

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Prerequisite: MUSC490; or students who have taken courses with comparable content may contact the department.

Baton techniques applied to score reading, rehearsal techniques, tone production, style and interpretation.

Concurrent registration in MUED472.

0101	Edward Maclary	Seats (Total: 20)
	MW 9:00am - 9:50am	PAC 2201
0201	Michael Votta	Seats (Total: 20)
	MW 3:00pm - 3:50pm	PAC 2168

MUSC493 Keyboard Music II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MUSC492; and permission of ARHU-School of Music department.

The history and literature of harpsichord and solo piano music from the Romantic period to the present. Emphasis is placed on those segments of repertory which are encountered in performance and teaching situations at the present time.

0101	Mayron Tsong	Seats (Total: 15)
	MW 11:00am - 12:15pm	PAC 3168

MUSC499 Independent Studies

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.

Contact department for information to register for this course.

MUSC602**Advanced Italian Lyric Diction**

(Perm req)

Credits: 1 Grading Method: Regular,
 Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic and song literature in Italian: syllabification, vowels, stressed and unstressed syllables, diphthongs, glides and elisions, single and double consonants with emphasis on current performance practices.

0101	Dominic Cossa	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 1218

MUSC603**Advanced German Lyric Diction**

Credits: 1 Grading Method: Regular,
 Audit

Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.

Concepts, strategies and techniques for singing operatic and song literature in German: single and double consonants, the use of the glottal, the German closed (e) and (o) vowels, the "schwa" and consonant clusters. Mastery of the International Phonetic Alphabet (IPA) as it applies to "Hochdeutsch" will be expected.

0101	Delores Ziegler	Seats (Total: 15)
	Tu 10:30am - 12:00pm	PAC 2170

MUSC606**Opera Repertory II**

Credits: 1 Grading Method: Regular,
 Audit

Prerequisite: MUSC605; or permission of instructor. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).

Continuation of MUSC 605. Advanced vocal coaching of selections from the Italian, French, German and English opera repertory: musical accuracy, language facility; diction clarity; and dramatic interpretation.

0101	Carmen Balthrop	Seats (Total: 10)
	Th 10:30am - 12:00pm	TWS 1121 Lab

MUSC608**Chamber Music Repertory; Chamber Music Repertoire**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Prerequisite: graduate standing as a major in performance. A study, through performance, of diversified chamber music for standard media.

Contact department for information to register for this course.

MUSC609

Piano Chamber Music Practicum and Analysis

(Perm req)

Credits: 2

Grading Method: Regular

Study of repertoire written for piano in duos or with several instruments, to develop an accompanists advanced performance skills in listening, balance, nuance in dynamics, harmonic motion and phrasing.

0101	Rita Sloan	Seats (Total: 10)
Contact instructor or department for details.		

MUSC612

Opera Techniques II

(Perm req)

Credits: 2

Grading Method: Regular,
Audit

Prerequisite: Minimum grade of B- in MUSC611. Corequisite: MUSC602. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) ; and permission of Director of Opera required.

Continuation of MUSC 611. Techniques for opera performance: Scene Study II; Movement II; and Mask.

0101	Craig Kier	Seats (Total: 20)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC614

Opera Techniques IV

(Perm req)

Credits: 2

Grading Method: Regular,
Audit

Prerequisite: Minimum grade of B- in MUSC613. Corequisite: MUSC606 and MUSC604. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) ; and permission of Director of Opera required.

Continuation of MUSC 613. Techniques for opera performance: Scene Study IV and Movement IV.

0101	Craig Kier	Seats (Total: 20)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC629A Ensemble; Symphony Orchestra

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	James Ross	Seats (Total: 50)		
	TuTh 3:30pm - 6:30pm	PAC 1230	Lab	

MUSC629C Ensemble; Wind Ensemble

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Michael Votta	Seats (Total: 20)		
	MWF 11:00am - 12:30pm	PAC 2540	Lab	

MUSC629G Ensemble; Balinese Gamelan

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	I Suadin	Seats (Total: 5)		
	Th 7:00pm - 8:30pm	PAC 1230	Lab	

MUSC629J Ensemble; Jazz Ensemble

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Christopher Vadala, Timothy Powell	Seats (Total: 20)		
	MW 5:30pm - 7:15pm	PAC 1230	Lab	
0201	Christopher Vadala, Timothy Powell	Seats (Total: 5)		
	MW 1:00pm - 2:15pm	PAC 1230	Lab	

0301	Christopher Vadala	Seats (Total: 10)	
	M 7:30pm - 9:30pm	PAC 1230	Lab

MUSC629K Ensemble; Japanese Koto

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Kyoko Okamoto	Seats (Total: 2)	
	Tu 5:30pm - 7:00pm	PAC 3160	Lab

MUSC629L Ensemble; Advanced Japanese Koto

(Perm req)

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Prerequisite: Contact instructor to make arrangements.

0101	Kyoko Okamoto	Seats (Total: 4)	
	Tu 7:00pm - 8:30pm	PAC 3160	Lab

MUSC629P Ensemble; Percussion Ensemble

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Lee Hinkle	Seats (Total: 15)	
	F 3:30pm - 6:00pm	PAC 2540	Lab
	W 5:00pm - 7:00pm	PAC 2540	Lab

MUSC629Q Ensemble; Korean Percussion Ensemble

Credits: 1 Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

0101	Sebastian Wang	Seats (Total: 5)	
	Th 7:00pm - 8:30pm	PAC 2170	Lab

MUSC629R Ensemble; Repertoire Orchestra

(Perm req)

Credits: 1

Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	James Ross, Enrico Lopez-Yanez	Seats (Total: 10)	
	MW 3:00pm - 5:00pm	PAC 1230	Lab

MUSC629U

Ensemble; University Band

Credits: 1

Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition. Contact instructor to make arrangements.

0101	Elijah Osterloh	Seats (Total: 10)	
	W 7:30pm - 9:30pm	PAC 2540	Lab

MUSC629W

Ensemble; Wind Orchestra

(Perm req)

Credits: 1

Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Open by audition. Contact instructor to make arrangements.

0101	Michael Votta	Seats (Total: 30)	
	TuTh 3:30pm - 6:30pm	PAC 2540	Lab

MUSC629Z

Ensemble; Jazz Combo

(Perm req)

Credits: 1

Grading Method: Regular

Rehearsal and performance of selected works for small and large instrumental ensembles.

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Gerard Kunkel	Seats (Total: 5)	
	Contact instructor or department for details.		
0201	Thomas Baldwin	Seats (Total: 5)	
	Contact instructor or department for details.		

0301	Jeffrey Reed	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Brendan Schnabel	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC645 Seminar in Vocal Pedagogy

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department.

A study of the physiological, psychological and acoustical aspects of the teaching of singing combined with independent study and research in areas of individual interest.

Advanced special students require department authorization.

0101	Martha Randall	Seats (Total: 10)
	MW 9:30am - 10:45am	PAC 3168

MUSC649A Ensemble; University of Maryland Chorale

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)
	TuTh 4:30pm - 6:00pm	PAC 2201 Lab

MUSC649B Ensemble; Chamber Singers

(Perm req)

Credits: 1 Grading Method: Regular

Audition required before permission of department will be granted. Contact instructor to make arrangements.

0101	Edward Maclary	Seats (Total: 10)
	MW 3:00pm - 3:50pm	PAC 2201
	TuTh 3:30pm - 4:20pm	PAC 2201

MUSC649E Ensemble; Gospel Choir

Credits: 1 Grading Method: Regular

0101	Anne Carswell	Seats (Total: 10)	
	Th 7:00pm - 10:00pm	PAC 2201	Lab

MUSC649M Ensemble; Men's Chorus

Credits: 1 Grading Method: Regular

0101	Edward Maclary, Joseph Shortall	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 1230	

MUSC649O Ensemble; Opera Chorus

(Perm req)

Credits: 1 Grading Method: Regular

0101	Edward Maclary	Seats (Total: 15)	
	F 4:00pm - 6:00pm	PAC 2170	Lab

MUSC649W Ensemble; Women's Chorus

Credits: 1 Grading Method: Regular

0101	Kenneth Elpus	Seats (Total: 10)	
	MWF 12:00pm - 12:50pm	PAC 2201	

MUSC654 Jazz Improvisation II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MUSC653. Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC654 or MUSC699Z. Formerly: MUSC699Z.

Continuation of MUSC653, study of jazz improvisation techniques through analysis, transcription and composition.

0101	Gerard Kunkel	Seats (Total: 5)	
	Th 12:30pm - 3:00pm	PAC 1208	

MUSC656 Jazz Arranging

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MUSC655. Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC656 or MUSC699N. Formerly: MUSC699N.

Comprehensive approach to jazz arranging, including chord scale theory, voicing techniques, part and score layout, and formal construction of an arrangement.

0101	Timothy Powell	Seats (Total: 12)
	TuTh 3:30pm - 4:45pm	PAC 2168

MUSC659 Seminar in Repertoire and Pedagogy

Credits: 2 Grading Method: Regular,
Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Edward Maclary	Seats (Total: 6)
	MW 10:00am - 10:50am	PAC 3160

MUSC659B Seminar in Repertoire and Pedagogy; Orchestral

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	James Ross	Seats (Total: 10)
	Contact instructor or department for details.	

MUSC659C Seminar in Repertoire and Pedagogy; Wind

(Perm req)

Credits: 2-3 Grading Method: Regular,
Audit

Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.

0101	Michael Votta	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC669F Orchestral Excerpts for String Players; BASS

Credits: 1 Grading Method: Regular,
Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Robert Oppelt	Seats (Total: 15)
	W 4:30pm - 5:45pm	Location: TBA

MUSC669V Orchestral Excerpts for String Players; HARP

Credits: 1 Grading Method: Regular,
 Audit

In-depth study of the orchestral excerpts required for professional orchestra auditions.

0101	Sarah Fuller	Seats (Total: 15)
	Contact instructor or department for details.	

MUSC672 Masterworks of the 20th Century: 1900-1950

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Permission of ARHU-School of Music department; and must not have completed MUSC470. Credit only granted for: MUSC448M, MUSC470, MUSC672, or MUSC699M. Formerly: MUSC699M.

A comprehensive survey of Western Art-Music of the first half of the 20th Century with a more intensive study and analysis of composers who have had a profound influence in the development of compositional practice in the modern era.

0101	Mark Wilson	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	PAC 3168

MUSC673 Style Analysis

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC251; and permission of ARHU-School of Music department. Restriction: Must not have completed MUSC448. Credit only granted for: MUSC673, MUSC448F, or MUSC699F. Formerly: MUSC699F.

An analytical study of musical style from the Middle Ages to present through analysis of selected compositions. The principle genres and composers of Medieval, Renaissance, Baroque, Classical, Romantic and 20th century music will be covered.

0101	James Fry	Seats (Total: 15)
	TuTh 9:30am - 10:45am	PAC 3160

MUSC679E Seminar in Ethnomusicology; Reading the Music Ethnography

Credits: 3 Grading Method: Regular

Seminar topics address current issues, including gender, the social economy of music, ethnography of performance, etc.

0101	John Witzleben	Seats (Total: 12)
	Tu 3:30pm - 6:00pm	PAC 3110A

MUSC682 Seminar in Music of the Baroque Era

Credits: 3 Grading Method: Regular,
Audit

Seminar in music of the Baroque era. Research topics in music from 1600 to 1750.

0101	Richard King	Seats (Total: 12)
	W 3:30pm - 6:00pm	PAC 3110A

MUSC688 Advanced Orchestration

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Orchestration projects in the styles of Debussy, Ravel, Stravinsky, Schoenberg, Bartok, and others.

0101	Mark Wilson	Seats (Total: 5)
	TuTh 11:00am - 12:15pm	PAC 2168

MUSC699 Selected Topics in Music

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

MUSC699P Selected Topics in Music; Perspectives on Pianism

Credits: 1-3 Grading Method: Regular,
Audit

0101	Donald Manildi	Seats (Total: 12)
	W 6:30pm - 9:00pm	PAC 2515C

MUSC699Q**Selected Topics in Music; Opera Today**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

0101	Olga Haldey	Seats (Total: 12)
	M 6:30pm - 9:00pm	PAC 3110A

MUSC699V**Selected Topics in Music; VOCAL COACHING**

Credits: 1-3 Grading Method: Regular,
Audit

0101	Robert McReynolds	Seats (Total: 15)
	Contact instructor or department for details.	

MUSC699W**Selected Topics in Music; Instrumental Pedagogy**

Credits: 3 Grading Method: Regular,
Audit

Contact department for information to register for this course.**MUSC758****Advanced Aural Skills for Conductors**

(Perm req)

Credits: 1 Grading Method: Regular

Continuation of MUSC757, advanced aural skills necessary for conductors.

0101	Michael Votta	Seats (Total: 5)
	W 1:00pm - 2:15pm	PAC 2126

MUSC799**Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.**MUSC800A****Advanced Seminar in Music Pedagogy**

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Rita Sloan	Seats (Total: 5)
	Contact instructor or department for details.	

MUSC801A Advanced Seminar in Music Pedagogy

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Robert McReynolds	Seats (Total: 10)
	Th 9:30am - 12:30pm	PAC 2126

MUSC801P Advanced Seminar in Music Pedagogy

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Cleveland Page	Seats (Total: 10)
	W 12:30pm - 3:00pm	PAC 3168

MUSC801V Advanced Seminar in Music Pedagogy

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

0101	Martha Randall	Seats (Total: 15)
	W 3:00pm - 5:30pm	PAC 3168

MUSC801W Advanced Seminar in Music Pedagogy

(Perm req)

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.

A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.

Contact department for information to register for this course.

MUSC812 Doctoral Opera Techniques II

Credits: 2 Grading Method: Regular,
 Audit

Prerequisite: MUSC811; and permission of ARHU-School of Music department. Credit only granted for: MUSC612 or MUSC812.

Continuation of MUSC811. Techniques for opera performance: Scene Study II; Acting II; Movement II: Stage Combat I; and Mask; and methodology seminar.

0101	Craig Kier	Seats (Total: 5)
	TBA	PAC 2170
	TBA	PAC 1218 Lab

MUSC814 Doctoral Opera Techniques IV

Credits: 2 Grading Method: Regular,
 Audit

Prerequisite: MUSC813; and permission of ARHU-School of Music department. Credit only granted for: MUSC614 or MUSC814.

Continuation of MUSC813. Techniques for opera performance: Scene Study IV; Dance II; Movement IV; and methodology seminar.

0101	Craig Kier	Seats (Total: 5)	
	TBA	PAC 2170	
	TBA	PAC 1218	Lab

MUSC830C Doctoral Seminar in Music Literature

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Must have completed at least twelve hours in music history and literature.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.

0101	James Ross	Seats (Total: 8)	
	Contact instructor or department for details.		

MUSC831C Doctoral Seminar in Music Literature

(Perm req) Grading Method: Regular,
Credits: 3 Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

0101	James Ross	Seats (Total: 5)	
	Contact instructor or department for details.		

MUSC831S Doctoral Seminar in Music Literature

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

0101	Kenneth Slowik	Seats (Total: 15)	
	M 9:00am - 12:00pm	PAC 2126	

MUSC831W Doctoral Seminar in Music Literature

Credits: 3 Grading Method: Regular, Audit

Prerequisite: MUSC830; or permission of ARHU-School of Music department.

An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music. Required of all candidates for the D.M.A. Degree in literature-performance.

Contact department for information to register for this course.

MUSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

MUSC899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

NACS Neuroscience & Cognitive Science Spring 2016

NACS600 Ethics in Scientific Research

(Perm req)

Credits: 2 Grading Method: Regular, Audit

Prerequisite: Must have completed a year of graduate study. Restriction: Permission of instructor; and must be in Neurosciences and Cognitive Sciences (Doctoral) program. Credit only granted for: NACS600, PSYC788B, or BIOL600.

Issues of scientific integrity with emphasis on investigators in the laboratory sciences, including mentoring, scientific record keeping, authorship and peer review, ownership of data, use of animals and humans in research, and conflict of interest.

Also offered as BIOL600, CHEM648E, and PSCY788B. Credit granted for BIOL600, CHEM648E, PSYC788B or NACS600.

0101	Robert Dooling	Seats (Total: 20)
	W 3:00pm - 5:00pm	BPS 1208

NACS608 Neuroscience and Cognitive Science Seminar

Credits: 1 Grading Method: Regular

Special seminar topics in Neuroscience and Cognitive Science.

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	Yasmeen Shah	Seats (Total: 30)
	Tu 1:00pm - 3:30pm	LEF 2166

NACS728N Selected Topics in Neuroscience and Cognitive Science; Diseases of the Nervous System

Credits: 3 Grading Method: Regular

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

Also offered as BIOL708E. Credit granted for NACS728N or BIOL708E.

0101	Quentin Gaudry	Seats (Total: 5)
	TuTh 2:00pm - 3:15pm	MCB 1207

NACS728Q Selected Topics in Neuroscience and Cognitive Science; Biological Bases of Behavior Laboratory

(Perm req)

Credits: 4 Grading Method: Regular,
Audit

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

0101	David Yager	Seats (Total: 6)
	MW 9:00am - 9:50am	BPS 1236
	M 1:00pm - 5:00pm	BPS 0263 Lab
0201	David Yager	Seats (Total: 6)
	MW 9:00am - 9:50am	BPS 1236
	Tu 1:00pm - 5:00pm	BPS 0263 Lab
0301	David Yager	Seats (Total: 6)
	MW 9:00am - 9:50am	BPS 1236
	W 1:00pm - 5:00pm	BPS 0263 Lab

NACS798 Master's Non-Thesis Research

Credits: 1-3 Grading Method: Regular

Individual research course for NACS non-thesis MS degree

Contact department for information to register for this course.

NACS799 Master's Thesis Research

Credits: 1-3 Grading Method: Regular

Individualized research course for NACS thesis MS degree

Contact department for information to register for this course.

NACS898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

NACS899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Individual instruction course: contact department or instructor to obtain section number

Contact department for information to register for this course.

NFSC Nutrition and Food Science

Spring 2016

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.

NFSC100 Elements of Nutrition

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

0101	Seong-Ho Lee	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 0130	
	W 3:00pm - 3:50pm	BPS 1234	Discussion
0102	Seong-Ho Lee	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 0130	
	W 2:00pm - 2:50pm	BPS 1238	Discussion

0103	Seong-Ho Lee MW 11:00am - 11:50am Tu 4:00pm - 4:50pm	Seats (Total: 25) TYD 0130 BPS 1234	Discussion
0104	Seong-Ho Lee MW 11:00am - 11:50am Th 12:30pm - 1:20pm	Seats (Total: 25) TYD 0130 PLS 1115	Discussion
0105	Seong-Ho Lee MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) TYD 0130 BPS 1228	Discussion
0106	Seong-Ho Lee MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 HBK 0103	Discussion
0108	Seong-Ho Lee MW 11:00am - 11:50am W 12:00pm - 12:50pm <i>Section 0108 is recommended for majors only.</i>	Seats (Total: 25) TYD 0130 PLS 1146	Discussion
0110	Seong-Ho Lee MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 25) TYD 0130 HBK 1108	Discussion
0111	Seong-Ho Lee MW 11:00am - 11:50am Tu 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 SYM 0215	Discussion
0113	Seong-Ho Lee MW 11:00am - 11:50am Th 2:00pm - 2:50pm	Seats (Total: 25) TYD 0130 PLS 1115	Discussion
0117	Seong-Ho Lee MW 11:00am - 11:50am W 10:00am - 10:50am	Seats (Total: 25) TYD 0130 SYM 0209	Discussion
0118	Seong-Ho Lee MW 11:00am - 11:50am W 9:00am - 9:50am	Seats (Total: 25) TYD 0130 PLS 1115	Discussion

NFSC315**Nutrition During the Life Cycle**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: NFSC100. Formerly: NUTR315.

A study of how development throughout life, including prenatal development, pregnancy, lactation, adolescence and aging, alter nutrient requirements. Students will apply this knowledge to the dietary needs and food choices of these different groups.

0101	Caroline Rocourt, Robert Jackson	Seats (Total: 101)
	TuTh 2:00pm - 3:15pm	TWS 0310

NFSC386**Experiential Learning**

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.

Contact department for information to register for this course.

NFSC398**Seminar**

Credits: 1 Grading Method: Regular

Presentation and discussion of current literature and research in food science.

FDSC majors only.

0101	Qin Wang	Seats (Total: 15)
	F 12:00pm - 12:50pm	SKN 0101

NFSC399**Special Problems in Food Science**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Designed for advanced undergraduates. Specific problems in food science will be assigned.

Contact department for information to register for this course.

NFSC414**Mechanics of Food Processing**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS121. Credit only granted for: ENBE414 or NFSC414. Formerly: ENBE414.

Applications in the processing and preservation of foods, of power transmission, hydraulics, electricity, thermodynamics, refrigeration, instruments and controls, materials handling and time and motion analysis.

0101	Rohan Tikekar	Seats (Total: 30)	
	MW 10:00am - 10:50am	KEY 0120	
	F 1:00pm - 2:30pm	MMH 3112	Lab

NFSC430 Food Microbiology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI223; or permission of instructor. Credit only granted for: ANSC430 or NFSC430. Formerly: FDSC430.

A study of microorganisms of major importance to the food industry with emphasis on food-borne outbreaks, public health significance, bioprocessing of foods, disease control, and the microbial spoilage of foods.

Also offered as NFSC679M. Credit granted for NFSC430 or NFSC679M.

0101	Robert Buchanan	Seats (Total: 40)	
	MW 11:00am - 12:15pm	SKN 0104	

NFSC431 Food Quality Control

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Definition and organization of the quality control function in the food industry; preparation of specifications; statistical methods for acceptance sampling; in-plant and processed product inspection. Instrumental and sensory methods for evaluating sensory quality, identity and wholesomeness and their integration into grades and standards of quality. Statistical Process Control (SPC).

0101	Abani Pradhan	Seats (Total: 20)	
	TuTh 11:00am - 11:50am	SKN 0101	
	F 9:00am - 11:30am	MMH 3419	Lab

NFSC434 Food Microbiology Laboratory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in NFSC430. Credit only granted for: NFSC434 or ANSC434. Formerly: FDSC434.

A study of techniques and procedures used in the microbiological examination of foods.

0101	Robert Buchanan	Seats (Total: 20)	
	TuTh 12:30pm - 4:00pm	MMH 3419	Lab

NFSC450 Food and Nutrient Analysis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BCHM461 and NFSC100. Formerly: NUTR450.

Methods and practices of the analysis of foods and nutrients. An overview of the principles and basic mechanisms used in many of the analytical procedures commonly used in food and nutrition research. Emphasis will be placed on hands-on development of skills necessary to complete each analytical procedure; and on the accurate and concise description of the methodology and results from their application and on the regulations governing food analysis for nutritional labeling.

0101	Thomas Castonguay	Seats (Total: 13)	
	W 1:00pm - 1:50pm	BPS 1238	
	W 2:00pm - 5:00pm	MMH 3419	Lab
0102	Thomas Castonguay	Seats (Total: 13)	
	W 1:00pm - 1:50pm	BPS 1238	
	M 1:00pm - 4:00pm	MMH 3419	Lab
0103	Thomas Castonguay	Seats (Total: 13)	
	W 1:00pm - 1:50pm	BPS 1238	
	F 1:00pm - 4:00pm	MMH 3419	Lab

NFSC460 Medical Nutrition Therapy

(Perm req) Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: NFSC380 and NFSC440; and permission of AGNR-Nutrition and Food Science department. Formerly: NUTR460.

Modifications of the normal adequate diet to meet human nutritional needs in acute and chronic diseases and metabolic disorders.

0101	Margaret Udahogora	Seats (Total: 17)	
	MW 1:00pm - 2:15pm	PLS 1117	
	M 2:30pm - 5:30pm	SKN 0101	Lab

0102	Margaret Udahogora	Seats (Total: 17)	
	MW 1:00pm - 2:15pm	PLS 1117	
	W 2:30pm - 5:30pm	SKN 0101	Lab

NFSC470 Community Nutrition

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, DVCC

Prerequisite: NFSC315; and permission of AGNR-Nutrition and Food Science department. Formerly: NUTR470.

Perspectives underlying the practice of nutrition services in community settings. Assessment of needs, program planning and evaluation. Programs and strategies to meet nutrition needs outside the acute care setting, such as nutrition education and food assistance. National nutrition policy and federal initiatives in nutrition will be examined. Students will be required to travel to local community nutrition sites during the semester.

0101	Nadine Sahyoun	Seats (Total: 40)	
	MW 11:00am - 11:50am	HBK 0103	
	F 10:00am - 11:50am	TYD 2106	Discussion

NFSC490 Special Problems in Nutrition

(Perm req)

Credits: 2-3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.

Individually selected problems in the area of human nutrition.

Contact department for information to register for this course.

NFSC491 Issues and Problems in Dietetics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: CS

Prerequisite: NFSC350; and permission of AGNR-Nutrition and Food Science department. Corequisite: NFSC460. Restriction: Senior standing or higher; and must be in Nutrition and Food Science: Dietetics program.

A capstone course for dietetics majors. Students will integrate knowledge and theory of nutrition, food, management, psychology, and social behaviors necessary to support quality dietetic practice. Working in teams, students will participate in case studies, simulated situations and community projects. Individuals and groups will present cases as well as papers on published research.

0101	Ucheoma Akobundu	Seats (Total: 25)
	MW 8:30am - 10:50am	HBK 0103

NFSC498

Selected Topics

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498A

Selected Topics; Individual Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC498L

Selected Topics; Diet and Optimal Human Health

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Selected current aspects of food.

0101	Seong-Ho Lee	Seats (Total: 20)
	Tu 2:00pm - 4:30pm	CHM 1224

NFSC633

Food Polymer Science

Credits: 3 Grading Method: Regular

Prerequisite: Permission of instructor. Credit only granted for: NFSC633 or NFSC679P. Formerly: NFSC679P.

Food polymers including protein and carbohydrate from food, and their chemical, physical, and functional properties together with their structure-function relationship will be discussed. Food polymer applications in food and non-food areas will be covered. Principles and applications of instrumental methods for polymer characterization will be introduced. An emphasis on nanotechnology and its application to design and characterization food polymers will be included.

0101	Qin Wang	Seats (Total: 15)
	Th 1:00pm - 3:45pm	SKN 0101

NFSC678A**Selected Topics in Nutrition**

Credits: 1-4 Grading Method: Regular,
Audit

Individual or group study in an area of nutrition.

Contact department for information to register for this course.

NFSC678L**Selected Topics in Nutrition; Diet and Optimal Human Health**

Credits: 3 Grading Method: Regular,
Audit

Individual or group study in an area of nutrition.

0101	Seong-Ho Lee	Seats (Total: 5)
	Tu 2:00pm - 4:30pm	CHM 1224

NFSC678M**Selected Topics in Nutrition; CURRENT TOPICS IN NUTRITION AND INFLAMMATORY DISEASE**

Credits: 3 Grading Method: Regular,
Audit

Individual or group study in an area of nutrition.

Analysis of current topics related to diet, nutrition, and inflammatory disease at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro/vivo model systems used in research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on inflammatory diseases. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation/interpretation of evidence based scientific data.

0101	Shaik Rahaman	Seats (Total: 20)
	M 2:15pm - 5:00pm	MMH 3112

NFSC679E**Selected Topics in Food Science; Mechanics of Food Processing**

Credits: 4 Grading Method: Regular

Individual or group study in an area of food science.

0101	Rohan Tikekar	Seats (Total: 30)
	MW 10:00am - 10:50am	KEY 0120
	F 1:00pm - 2:30pm	MMH 3112 Lab

NFSC679M**Selected Topics in Food Science; Food Microbiology**

Credits: 3 Grading Method: Regular

Individual or group study in an area of food science.

Also offered as NFSC430. Credit granted for NFSC679M or NFSC430.

0101	Robert Buchanan	Seats (Total: 6)
	MW 11:00am - 12:15pm	SKN 0104

NFSC688 Seminar in Nutrition and Food Science

Credits: 1-3 Grading Method: Regular,
Audit

This is a seminar course presented by NFSC graduate students and invited speakers in the field of nutrition and food science.

0101	Robert Jackson	Seats (Total: 25)
	W 12:00pm - 12:50pm	SKN 0101

NFSC699 Problems in Nutrition and Food Science

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.

Contact department for information to register for this course.

NFSC899

Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

NIAP

**National Institute of Aeronautics -
Va Tech**

Spring 2016

NIAP788A

Special Topics in National Institute of Aerospace Engineering; Applied Numerical Method

Credits: 1-3

Grading Method: Regular,
Audit

TV01

Sung Lee

Seats (Total: 5)

Contact instructor or department for details.

NIAV

**National Institute of Aeronautics -
Univ of VA**

Spring 2016

NIAV788A

Advanced Topics; Engineering Design Optimization

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Contact department for information to register for this course.

NIAV788W

Advanced Topics; Statistics for Engineers and Scientists

Credits: 3

Grading Method: Regular

TV01

Sung Lee

Seats (Total: 20)

Contact instructor or department for details.

PERS

Persian

Spring 2016

PERS102

Elementary Persian II

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

*Prerequisite: PERS101; or must have appropriate Foreign Language Placement Test (FLPT) score.
Restriction: Must not be native/fluent speaker of Persian.*

Continuation of PERS101 with emphasis on the use of formal language, vocabulary building, and reading.

0101	Susan Moinfar	Seats (Total: 15)
	MWF 10:00am - 10:50am	SQH 1101
	Tu 10:00am - 10:50am	SQH 1121

PERS212 Intermediate Reading in Persian

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PERS211 and PERS201; or permission of instructor. Corequisite: PERS202; or permission of instructor.

Focus on linguistic skill specific to reading; introduction to written traditions of Persian.

0101	Payman Vafaei	Seats (Total: 15)
	MWF 11:00am - 11:50am	SQH 2114

PERS252 Gender and Body in Iran

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: PERS298A, WMST298J, or PERS252. Formerly: PERS298A.

Multidisciplinary approach to key topics concerning gender and body in Iran, to include insights from religion, history, sociology, anthropology, disability studies, travel literature, arts, and fashion. Taught in English.

Additional Note: Also offered as WMST298J. Credit granted for WMST298J or PERS252.

0101	Ida Meftahi	Seats (Total: 30)
	MW 3:30pm - 4:45pm	JMZ 2207

PERS302 Advanced Persian II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PERS301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be native/fluent speaker of Persian.

Further development of speaking, reading, writing, listening and cultural knowledge, with special focus on reading, in a variety of literary genres.

0101	Manizhe Galledari	Seats (Total: 15)
	MWF 1:00pm - 1:50pm	SQH 2120

PERS312 Contemporary Iranian Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PERS301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be native/fluent speaker of Persian.

Study of the culture of contemporary Iran (post-evolution) with focus on the contemporary social, political, literary and artistic life in Iran. Taught in Persian.

0101	Nahal Akbari-Saneh	Seats (Total: 15)
	MWF 12:00pm - 12:50pm	SQH 2114

PERS386 Experiential Learning

(Perm req) Grading Method: Regular,
Credits: 6 Pass-Fail

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department.

Pre-professional experience in research, analysis and writing in a work setting. Project proposal approved by faculty and internship sponsor.

Contact department for information to register for this course.

PERS398B Special Topics in Persian Studies; Arts, Leisure, and Entertainment: Urban Life in Modern Iran

Credits: 3 Grading Method: Regular, General Education: DSHS
Pass-Fail, Audit

Special topic to be announced when course is offered. Taught in Persian

Taught in English. Interdisciplinary historical exploration of the formation and transformations of urban public culture in modern Iran. Also offered as HIST328C. Credit granted for PERS398B or HIST328C.

0101	Ida Meftahi	Seats (Total: 30)
	TuTh 3:30pm - 4:45pm	JMZ 2122

PERS399 Directed Study in Persian

(Perm req) Grading Method: Regular,
Credits: 1-3 Pass-Fail, Audit

Directed study with faculty supervision.

Contact department for information to register for this course.

PERS399F**Directed Study in Persian**

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Directed study with faculty supervision.

2930	Nahal Akbari-Saneh	Seats (Total: 5)
	Contact instructor or department for details.	
	Contact department or instructor for details.	

PERS498A**Special Topics in Persian Studies; Advanced Literary Skills in Persian**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topic and language to be announced when offered.

Taught in Persian.

0101	Manizhe Galledari	Seats (Total: 5)
	MTu 9:00am - 11:45am	SQH 2115

PERS498D**Special Topics in Persian Studies; Political. Economic, and Social Thought in Today's Iran**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topic and language to be announced when offered.

Taught in Persian.

0101	Navid Bazargan	Seats (Total: 5)
	Th 9:00am - 11:45am	SQH 2115

PERS498E**Special Topics in Persian Studies; Translation of Contemporary Persian TExts**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topic and language to be announced when offered.

0101	Nahal Akbari-Saneh	Seats (Total: 5)
	F 9:00am - 11:45am	SQH 2115

PERS498G**Special Topics in Persian Studies; Masterpieces of Persian Literature**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Topic and language to be announced when offered.

Taught in Persian.

0101	Navid Bazargan	Seats (Total: 15)
	Tu 6:00pm - 8:30pm	JMZ 2117

PERS689 Special Topics in Persian Studies

(Perm req)

Credits: 3 Grading Method: Regular,
 Audit

In-depth analysis of a particular aspect of Persian studies. In Persian

Contact department for permission to register.

Contact department for information to register for this course.

PHIL Philosophy Spring 2016

PHIL100 Introduction to Philosophy

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit CORE: HO General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

0101	Dan Moller	Seats (Total: 25)
	TuTh 11:00am - 11:50am	TYD 2109
	F 10:00am - 10:50am	PHY 1219 Discussion
0102	Dan Moller	Seats (Total: 25)
	TuTh 11:00am - 11:50am	TYD 2109
	F 11:00am - 11:50am	ITV 1100 Discussion
0103	Dan Moller	Seats (Total: 25)
	TuTh 11:00am - 11:50am	TYD 2109
	F 12:00pm - 12:50pm	EGR 3102 Discussion
0201	Brock Rough	Seats (Total: 25)
	MW 1:00pm - 1:50pm	TYD 1102
	F 10:00am - 10:50am	JMP 1202 Discussion

0202	Brock Rough MW 1:00pm - 1:50pm F 11:00am - 11:50am	Seats (Total: 25) TYD 1102 TYD 1114	Discussion
0203	Brock Rough MW 1:00pm - 1:50pm F 1:00pm - 1:50pm	Seats (Total: 25) TYD 1102 CSI 3118	Discussion

PHIL140

Contemporary Moral Issues

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.

0101	Alexey Aliev TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 PLS 1117	Discussion
0102	Alexey Aliev TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 25) SHM 2102 EGR 1102	Discussion
0103	Alexey Aliev TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 CSI 2118	Discussion
0104	Alexey Aliev TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 JMP 1109	Discussion
0105	Alexey Aliev TuTh 12:30pm - 1:20pm F 12:00pm - 12:50pm	Seats (Total: 25) SHM 2102 CHM 0124	Discussion
0106	Alexey Aliev TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 SKN 1115	Discussion

0201	Christopher Vogel MW 12:00pm - 12:50pm F 10:00am - 10:50am	Seats (Total: 25) SHM 2102 JMZ 1124	Discussion
0202	Christopher Vogel MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) SHM 2102 KEY 0126	Discussion
0203	Christopher Vogel MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 HBK 0123	Discussion
0204	Christopher Vogel MW 12:00pm - 12:50pm F 11:00am - 11:50am	Seats (Total: 25) SHM 2102 TYD 2108	Discussion
0205	Christopher Vogel MW 12:00pm - 12:50pm F 12:00pm - 12:50pm	Seats (Total: 25) SHM 2102 KEY 0124	Discussion
0206	Christopher Vogel MW 12:00pm - 12:50pm F 1:00pm - 1:50pm	Seats (Total: 25) SHM 2102 EGR 2116	Discussion

PHIL170

Introduction to Logic

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR

Development of analytical reasoning skills through study of formal logics, reasoning systems, and fallacious inference patterns.

0101	Sungwon Woo MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ARM 0135 PLS 1113	Discussion
0102	Sungwon Woo MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ARM 0135 JMZ 1122	Discussion

0103	Sungwon Woo MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ARM 0135 PLS 1115	Discussion
0104	Sungwon Woo MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ARM 0135 EGR 0108	Discussion
0105	Sungwon Woo MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ARM 0135 TLF 1101	Discussion
0106	Sungwon Woo MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ARM 0135 JMZ 1215	Discussion
0107	Sungwon Woo MW 11:00am - 11:50am F 10:00am - 10:50am	Seats (Total: 25) ARM 0135 CSS 2416	Discussion
0108	Sungwon Woo MW 11:00am - 11:50am F 12:00pm - 12:50pm	Seats (Total: 25) ARM 0135 JMZ 1120	Discussion
0109	Sungwon Woo MW 11:00am - 11:50am F 1:00pm - 1:50pm	Seats (Total: 25) ARM 0135 EGR 1102	Discussion

PHIL209A

Philosophical Issues; Bioethics: Regulating Right and Wrong

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DSSP

An examination of selected philosophical issues of general interest.

Bioethicists help to formulate ethical guidelines for medical professionals and the public. This course involves students in the project of constructing and defending ethical rules regarding four domains in medicine: research ethics, allocation of scarce resources, reporting of incidental findings to research subjects, and euthanasia.

0101	Kelsey Gipe TuTh 9:30am - 10:20am F 10:00am - 10:50am	Seats (Total: 25) TYD 2106 EDU 3233	Discussion
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0102	Kelsey Gipe	Seats (Total: 25)	
	TuTh 9:30am - 10:20am	TYD 2106	
	F 12:00pm - 12:50pm	JMZ 0118	Discussion
0103	Kelsey Gipe	Seats (Total: 25)	
	TuTh 9:30am - 10:20am	TYD 2106	
	F 1:00pm - 1:50pm	HBK 0115	Discussion

PHIL209I

Philosophical Issues: Spooky Action at a Distance: Where Physics meets Metaphysics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU, SCIS

Einstein believed physics should represent a "reality in space and time, free from spooky action at a distance" and worried that quantum theory failed that test. This course will investigate whether Einstein was right.

0101	Allen Stairs	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	TWS 0310	
	F 11:00am - 11:50am	BPS 1250	Discussion
0102	Allen Stairs	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	TWS 0310	
	F 11:00am - 11:50am	BPS 1250	Discussion
0103	Allen Stairs	Seats (Total: 25)	
	TuTh 11:00am - 11:50am	TWS 0310	
	F 1:00pm - 1:50pm	EDU 2101	Discussion

PHIL209N

Know Thyself: Wisdom Through Cognitive Science

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHS, DSHU, SCIS

How do we improve our decision making? Reflection on the practical implications of some recent findings in cognitive science.

0101	Peter Carruthers	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2106	
	F 10:00am - 10:50am	CHE 2118	Discussion

0102	Peter Carruthers	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2106	
	F 11:00am - 11:50am	HBK 0123	Discussion
0103	Peter Carruthers	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 2106	
	F 1:00pm - 1:50pm	KEY 1117	Discussion

PHIL209X

Philosophical Issues; Philosophy of Language and Logic

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An examination of selected philosophical issues of general interest.

Contact department for information to register for this course.

PHIL230

Philosophy of the Arts

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA General Education: DSHU

A survey of theoretical perspectives on the arts from Plato to the present, along with critical examination of specific works of art. Analysis of concepts central to thought about art, such as beauty, form, content, expression, representation, interpretation, creation, style, medium, realism, aesthetic experience, and aesthetic value.

0101	Jerrold Levinson	Seats (Total: 21)	
	MW 10:00am - 10:50am	SKN 0104	
	F 10:00am - 10:50am	LEF 1221	Discussion
0103	Jerrold Levinson	Seats (Total: 21)	
	MW 10:00am - 10:50am	SKN 0104	
	F 1:00pm - 1:50pm	PLS 1162	Discussion

PHIL245

Political and Social Philosophy I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: DSHU

A critical examination of such classical political theories as those of Plato, Hobbes, Locke, Rousseau, Mill, Marx, and such contemporary theories as those of Hayek, Rawls, and recent Marxist thinkers.

0101	Christian Tarsney	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 0117	
	F 10:00am - 10:50am	KNI 1103	Discussion
0102	Christian Tarsney	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 0117	
	F 11:00am - 11:50am	KNI 1103	Discussion
0103	Christian Tarsney	Seats (Total: 25)	
	MW 1:00pm - 1:50pm	TYD 0117	
	F 1:00pm - 1:50pm	EDU 1315	Discussion

PHIL250

Philosophy of Science I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO General Education: DSHU

Main issues in the philosophy of science. Special attention to the ways scientific developments have influenced the philosophy of science and how philosophy of science has influenced scientific progress. Case studies of selected historical episodes in which science and philosophy have interacted significantly, focusing on the physical, biological, or social sciences.

For more information please contact swoo@umd.edu.

0101	Sungwon Woo	Seats (Total: 30)	
	TuTh 12:30pm - 1:45pm	KEY 0123	

PHIL269M

Special Topics in Study Abroad II; Moral Philosophy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL269Y

Special Topics in Study Abroad II; Truth and Reality

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL269Z

Special Topics in Study Abroad II; Introduction to Continental Philosophy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL282

Free Will & Determinism

Credits: 3 Grading Method: Regular, CORE: HO General Education: DSHU
Pass-Fail, Audit

A study of the main positions and arguments in the free will debate in contemporary analytic philosophy.

0101	Patricia Greenspan TuTh 12:30pm - 1:20pm F 10:00am - 10:50am	Seats (Total: 23) TYD 1102 ARC 1105 Discussion
0102	Patricia Greenspan TuTh 12:30pm - 1:20pm F 11:00am - 11:50am	Seats (Total: 23) TYD 1102 EDU 1121 Discussion
0103	Patricia Greenspan TuTh 12:30pm - 1:20pm F 1:00pm - 1:50pm	Seats (Total: 23) TYD 1102 SKN 0104 Discussion

PHIL308P

Studies in Contemporary Philosophy; Actors, Characters and Performances

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Prerequisite: 6 hours of philosophy What is a character that a person might play it? Do actors become their characters or merely represent them? Do they just interpret scripts, or create something of their own? The philosophy of theater and acting from Plato to the present day.

0101	Andrew Knoll TuTh 12:30pm - 1:45pm	Seats (Total: 30) JMZ 1122
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PHIL308X

Studies in Contemporary Philosophy; Philosophy and Time Travel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Examines the philosophical issues surrounding the paradoxes of time travel. Several solutions are considered, ranging from classical consistency conditions to multiverse theories. Materials include works of philosophy and physics, and time travel narratives from science fiction short stories and movies.

SG91	Lucas Dunlap	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
<i>Registration is restricted to Biological Sciences-Shady Grove majors. Permission is required for all other student to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>		

PHIL308Y Studies in Contemporary Philosophy; Philosophy and World Religions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Problems, issues, and points of view of current interest in philosophy.

Contact department for information to register for this course.

PHIL309F Philosophical Problems; Thinking about Non-Existent Things

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A focused study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to to generate critical analyses or proposed resolutions of issues in the contemporary philosophical literature.

Prerequisite: 6 hours of philosophy We often think about things that don't exist (rainbows, Sherlock Holmes...) but what it means to think about a non-existent thing is unclear. This course will draw on classic and contemporary literature in philosophy and cognitive science to investigate this question.

0101	Andrew Knoll	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1107

PHIL309L Philosophical Problems; Human Life: Absurdity, Contingency, Meaning and Death

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A focused study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to to generate critical analyses or proposed resolutions of issues in the contemporary philosophical literature.

Prerequisite: 6 hours of philosophy A course concerned with existential themes, the most fundamental questions about life and death that human beings must confront. We will engage these questions through philosophical texts from both analytic and continental traditions, some great works of literature, and a few exemplary films.

0101	Jerrold Levinson	Seats (Total: 30)
	MW 2:00pm - 3:15pm	KEY 0120

PHIL309P

Philosophical Problems; Philosophy, Politics and Economics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A focused study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to generate critical analyses or proposed resolutions of issues in the contemporary philosophical literature.

Prerequisite: 6 hours of philosophy The course will introduce rational choice theory, social choice theory, and game theory, and discuss how these mathematical theories are used in the social sciences (especially in economics and political science).

0101	Eric Pacuit	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	EGR 2116

PHIL320

Modern Philosophy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in PHIL courses.

A study of major philosophical issues of the 16th, 17th, and 18th centuries through an examination of such philosophers as Descartes, Newton, Hume, and Kant.

0101	Charles Manekin	Seats (Total: 25)
	MW 10:00am - 10:50am	TYD 2109
	F 10:00am - 10:50am	KNI 1105 Discussion
0102	Charles Manekin	Seats (Total: 25)
	MW 10:00am - 10:50am	TYD 2109
	F 12:00pm - 12:50pm	TLF 1101 Discussion
0103	Charles Manekin	Seats (Total: 25)
	MW 10:00am - 10:50am	TYD 2109
	F 1:00pm - 1:50pm	CCC 1115 Discussion

PHIL364**Metaphysics**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: 6 credits in PHIL courses. Formerly: PHIL464.**The study of some central metaphysical concepts and issues including the nature and validity of metaphysical thinking, universals, identity, substance, time, God, and reality.*

0101	Logan Fletcher	Seats (Total: 30)
	MW 2:00pm - 3:15pm	SQH 2120

PHIL366**Philosophy of Mind**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: 6 credits in PHIL courses.**An introduction to core issues in the philosophy of mind, focusing especially on the basic metaphysical question of dualism versus physicalism.*

0101	Georges Rey	Seats (Total: 33)
	TuTh 2:00pm - 3:15pm	SKN 0104

PHIL386**Experiential Learning**

(Perm req)

Credits: 6

Grading Method: Regular,
Pass-Fail*Restriction: Permission of ARHU-Philosophy department; and junior standing or higher.*

Consult Director of Undergraduate Studies: C. Manekin. Prerequisites: 12 credit hours of philosophy and 3.0 GPA. Carries no credit toward philosophy major.

Contact department for information to register for this course.

PHIL408B**Topics in Contemporary Philosophy; Bayesian Epistemology**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.*

Prerequisite: 6 hours of PHIL course work.

0101	Aidan Lyon	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PHIL408L Topics in Contemporary Philosophy; Latin American and Caribbean Thought

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

Also offered as LASC448I. Credit will be granted for LASC448I or PHIL 408L.

0101	James Maffie	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 2122

PHIL408P Topics in Contemporary Philosophy; Moral Psychology

Credits: 3 Grading Method: Regular,
Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

Prerequisite: PHIL341 and one other upper-level PHIL course, or permission of the instructor.

0101	Patricia Greenspan	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	SKN 1112

PHIL408R Topics in Contemporary Philosophy; Philosophical Presentations: Talks, Power Points and Polished Papers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

An opportunity to gain experience presenting a talk with Power-Point (based upon a successful paper written for some other course), fielding questions, and asking questions about papers presented by others in the course. Excellent preparation for professional presentations generally. Prerequisite: junior or senior status with a B+ or better in PHIL courses, or permission of the instructor.

0101	Georges Rey	Seats (Total: 15)
	W 12:00pm - 2:30pm	SKN 1116

PHIL408X**Topics in Contemporary Philosophy; Conscious Episodes**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive examination of contemporary problems and issues. Source material will be selected from recent books and articles.

Examines the problem of how the brain - a three pound collection of cells - gives rise to conscious experiences such as dreams, mental imagery, and perceptions.

0101	Ryan Ogilvie	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PHIL409V**Advanced Studies in Contemporary Philosophy; Mathematics and Mathematical Practice**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An in-depth study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to grapple with the primary literature in order to generate sustained critical analyses or proposed resolutions of issues under active consideration in contemporary philosophy.

Prerequisite: 6 hours of philosophy Examines both traditional topics in the philosophy of mathematics (such as the nature of mathematical objects and mathematical truth) and more recent research, both philosophical and psychological, on non-deductive aspects of mathematical practice.

BL01	Logan Fletcher	Seats (Total: 20)
	MW 11:00am - 11:50am	KEY 0126
	Class time/details on ELMs	ONLINE

PHIL414**The Philosophy of Aristotle**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 3 courses in PHIL.

A critical study of selected portions of Aristotle's writings.

0101	Rachel Singpurwalla	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	SKN 1115

PHIL456**Philosophy of Biology II**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHIL256 or PHIL250; or must be Life Science major; or permission of ARHU-Philosophy department.

Questions about concepts, reasoning, explanation, etc., in biology, and their relations to those of other areas of science. Case studies of selected aspects of the history of biology, especially in the twentieth century.

0101	Lindley Darden	Seats (Total: 20)	
	Th 3:30pm - 5:10pm	SKN 1115	
	Class time/details on ELMs	ONLINE	Discussion

PHIL469Y Study Abroad Special Topics IV; Philosophy of Science II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PHIL478D Topics in Philosophical Logic; Defeasible Reasoning

Credits: 3 Grading Method: Regular,
Pass-Fail

Methods and results of philosophical logic, the application of logical techniques to the study of concepts or problems of philosophical interest. Content will vary, either treating a particular logical area in detail--such as modal logic, conditional logic, deontic logic, intuitionistic or relevance logic, theories of truth and paradox--or surveying a number of these different areas.

Prerequisite: PHIL370 or equivalent, or permission of instructor.

0101	John Horty	Seats (Total: 20)	
	Th 2:00pm - 4:30pm	PLS 1164	

PHIL498F Topical Investigations; Topical Investigation

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL498G Topical Investigations; Topical Investigation

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Two courses in philosophy or permission of the department.

Contact department for information to register for this course.

PHIL498Z Topical Investigations; Realism and Idealism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

PHIL660 Metaphysics, Mind, and Language

Credits: 3 Grading Method: Regular,
Audit

A basic course on selected issues in metaphysics, philosophy of mind, and philosophy of language for beginning graduate students, covering a number of topics in depth, to provide a springboard for further study and research in the area.

0101	Paul Pietroski	Seats (Total: 15)
	M 2:00pm - 4:30pm	SKN 1116

PHIL788 Research in Philosophy

Credits: 1-6 Grading Method: Regular,
Audit

0101	John Brown	Seats (Total: 10)
	Contact instructor or department for details.	
0201	Jeffrey Bub	Seats (Total: 10)
	Contact instructor or department for details.	
0301	Peter Carruthers	Seats (Total: 10)
	Contact instructor or department for details.	
0401	Christopher Cherniak	Seats (Total: 10)
	Contact instructor or department for details.	
0501	Lindley Darden	Seats (Total: 10)
	Contact instructor or department for details.	
0601	Mathias Frisch	Seats (Total: 10)
	Contact instructor or department for details.	

0701	Patricia Greenspan	Seats (Total: 10)
	Contact instructor or department for details.	
0801	John Horty	Seats (Total: 10)
	Contact instructor or department for details.	
0901	Samuel Kerstein	Seats (Total: 10)
	Contact instructor or department for details.	
1001	Erin Eaker	Seats (Total: 10)
	Contact instructor or department for details.	
1101	Jerrold Levinson	Seats (Total: 10)
	Contact instructor or department for details.	
1201	Dan Moller	Seats (Total: 10)
	Contact instructor or department for details.	
1301	Charles Manekin	Seats (Total: 10)
	Contact instructor or department for details.	
1401	Susan Dwyer	Seats (Total: 10)
	Contact instructor or department for details.	
1501	Michael Morreau	Seats (Total: 10)
	Contact instructor or department for details.	
1601	Eric Pacuit	Seats (Total: 10)
	Contact instructor or department for details.	
1701	Alexander Williams	Seats (Total: 10)
	Contact instructor or department for details.	
1801	Georges Rey	Seats (Total: 10)
	Contact instructor or department for details.	
1901	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
2001	Allen Stairs	Seats (Total: 10)
	Contact instructor or department for details.	
2101	Rachel Singpurwalla	Seats (Total: 15)
	Contact instructor or department for details.	

2201	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
2301	Aidan Lyon	Seats (Total: 10)
	Contact instructor or department for details.	
2501	Paul Pietroski	Seats (Total: 10)
	Contact instructor or department for details.	
2701	Christopher Morris	Seats (Total: 10)
	Contact instructor or department for details.	

PHIL788G Research in Philosophy; Research in Philosophy

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

PHIL788I Research in Philosophy; Research in Philosophy

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Contact department for information to register for this course.

PHIL799 Master's Thesis Research; Masters Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

PHIL828D Seminar in the History of Philosophy

Credits: 3 Grading Method: Regular, Audit

0101	Rachel Singpurwalla	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	SKN 1116

PHIL848A Seminar in Ethics; Distributive Justice

Credits: 3 Grading Method: Regular,
Audit

0101	Dan Moller	Seats (Total: 15)
	Tu 4:30pm - 7:00pm	SKN 1116

PHIL858K

Credits: 3

0101	Eric Pacuit	Seats (Total: 15)
	Th 4:30pm - 7:00pm	SKN 1116

PHIL878A

Credits: 3-9

Methodology and research in various disciplines involved in cognitive studies.

0101	Peter Carruthers	Seats (Total: 10)
	M 4:30pm - 7:00pm	SKN 1116

PHIL888

Credits: 1-3

Work with a faculty advisor on various aspects of professional development.

Contact department for information to register for this course.

PHIL889

(Perm req)

Credits: 1-3

Work with a faculty advisor to develop and improve pedagogical skills.

Contact department for information to register for this course.

PHIL898

Credits: 1-8

Contact department for information to register for this course.

PHIL899

(Perm req)

Credits: 6

Contact department for information to register for this course.

(Perm req)

Credits: 1-3

Grading Method: Regular

Public Health Science Independent Research Study Experience

Contact department for information to register for this course.

PHSC401

History of Public Health

Credits: 3

Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have earned a minimum of 45 credits. Credit only granted for: PHSC401 or SPHL401. Formerly: SPHL401.

Emphasis is on the history of public health in the Western world from antiquity to the present. Also examines the influence of public health developments as they relate to the Western world as well as throughout diverse cultures and societies across the globe. Analysis focuses on the interaction among Western and non-Western cultures with respect to health issues, including science, policies, prevention and treatment.

0101	David Cantor	Seats (Total: 45)
	M 4:00pm - 6:30pm	SPH 1301
<i>Restricted to College Park students in the Public Health Science major (code 12140).</i>		
0201	Eric Boyle	Seats (Total: 45)
	W 4:00pm - 6:30pm	SPH 0302
<i>Restricted to College Park students in the Public Health Science major (code 12140).</i>		

PHSC405

Policy Advocacy and Public Health

Credits: 3

Grading Method: Regular

Prerequisite: Minimum grade of C- in PHSC401. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits.

In this course, students will identify and analyze policy solutions to public health problems and determine advocacy strategies to encourage policy makers to implement the recommendations. Lectures, class discussions, group work and mock advocacy exercises will integrate the principles and practice of public health advocacy. Guest lecturers from a variety of settings will give students a broad range of perspectives and advocacy experiences.

SG91	Susan DeFrancesco	Seats (Total: 40)
	W 6:00pm - 8:50pm	Location: TBA

PHSC412

Food, Policy, and Public Health

Credits: 3

Grading Method: Regular

Prerequisite: Must have completed HLSA300 with a C- or higher. Recommended: NFSC100.

Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC412 or SPHL412. Formerly: SPHL412.

Broad overview of the impact of food and food policy on public health. Course covers topics such as access to food, food systems, influence of food policies on the individual, the cost of food, influences on food selection, food safety risks and responses, nutrition-related health challenges, and a comparison of US food/nutrition issues with those of other nations.

SG91	Michael Bazaco	Seats (Total: 30)
	Tu 6:00pm - 8:50pm	Location: TBA
<i>Restricted to Shady Grove students in the Public Health Science major (code 12140).</i>		

PHSC415 Essentials of Public Health Biology: The Cell, The Individual, and Disease

Credits: 3 Grading Method: Regular

Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.

Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.

0101	Jessica O'Hara	Seats (Total: 60)
	MW 1:00pm - 2:15pm	SPH 1301
<i>Restricted to College Park students in the Public Health Science major (code 12140).</i>		

PHSC425 Genetics, Genomics, and Public Health

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed BSCI105 with a C- or better. Recommended: BSCI222 and BSCI223. Restriction: Must have earned a minimum of 60 credits; and must be in Public Health Science program. Credit only granted for: SPHL498X OR PHSC425. Formerly: SPHL498X.

Recent advances in genomic science and biomedical technologies have increased our understanding of the genetic basis of disease and the interplay between genetics and environmental and behavioral factors. This course will provide a solid background in basic genetics and genomic science and highlight the role of public health professionals in translating breakthroughs in this rapidly transforming field into the clinical setting, program planning, and policy. Topics covered will include the molecular basis for genetic variation, fetal and newborn screening, genetic risk factors for cancer, pharmacogenetics, the role of pathogen genomics in outbreak investigation, and applications of genetic engineering in solving public health issues.

0101	Jessica O'Hara	Seats (Total: 45)
	MW 11:00am - 12:15pm	SPH 1302
<i>Restricted to College Park students in the Public Health Science major (code 12140).</i>		
SG91	Jessica O'Hara	Seats (Total: 35)
	Tu 9:30am - 12:20pm	Location: TBA
<i>Restricted to Shady Grove students in the Public Health Science major (code 12140).</i>		

PHSC491

Public Health Science Internship

Credits: 3 Grading Method: Regular

Restriction: Must be in Public Health Science program; and must have completed a minimum of 75 credits; and must have permission of instructor. Credit only granted for: PHSC491 or SPHL491. Formerly: SPHL491. Additional information: Prospective students must meet with an advisor and complete internship verification, expectations and responsibilities prior to registration. This is generally completed the semester prior to beginning the internship.

The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.

0101	Lynn Cook	Seats (Total: 20)
	Contact instructor or department for details.	
SG91	Lynn Cook	Seats (Total: 30)
	Contact instructor or department for details.	

PHYS

Physics

Spring 2016

PHYS106

Light, Perception, Photography, and Visual Phenomena

Credits: 3 Grading Method: Regular, General Education: DSNL (if
Pass-Fail, Audit taken with PHYS107)

Intended for the general student, this course will cover topics in optics which require minimal use of mathematics. Principles of optics, lenses, cameras, lasers and holography, physics of the eye, color vision and various visual phenomena such as rainbows.

0101	Kara Hoffman	Seats (Total: 155)
	MWF 2:00pm - 2:50pm	PHY 1410

PHYS107

Light, Perception, Photography and Visual Phenomena Laboratory

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Optional laboratory to accompany PHYS106. Laboratory experiments include geometrical optics (lenses, cameras, eye), optical instruments (telescope, binoculars), photography, perception, color phenomena, and wave phenomena.

0101	Andris Skuja	Seats (Total: 24)	
	M 3:00pm - 4:50pm	PHY 3214	Lab
0301	Andris Skuja	Seats (Total: 24)	
	Tu 1:00pm - 2:50pm	PHY 3214	Lab
0501	Andris Skuja	Seats (Total: 24)	
	W 3:00pm - 4:50pm	PHY 3214	Lab

PHYS111 Physics in the Modern World

Credits: 3 Grading Method: Regular, CORE: PS
Pass-Fail, Audit

A survey course in general physics emphasizing the role that physics plays in science, technology, and society today. The course is concept oriented and minimal use of mathematics is made. Intended for the general student; does not satisfy the requirements of the professional schools.

Contact department for information to register for this course.

PHYS121 Fundamentals of Physics I

Credits: 4 Grading Method: Regular, CORE: PL General Education: DSNL
Pass-Fail, Audit

Prerequisite: MATH112 or MATH115. Credit only granted for: PHYS121 or PHYS131.

The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.

Physics Clinic, PHY 1214, MTWHF 12,2. If purchasing used books additional software may be required.

0301	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	M 11:00am - 12:50pm	PHY 3306	Lab
	M 10:00am - 10:50am	PLS 1113	Discussion

0302	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	Tu 1:00pm - 2:50pm	PHY 3306	Lab
	Tu 12:00pm - 12:50pm	MTH 0401	Discussion
0303	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	Th 12:00pm - 1:50pm	PHY 3306	Lab
	Th 11:00am - 11:50am	HBK 0108	Discussion
0304	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	Th 4:00pm - 5:50pm	PHY 3306	Lab
	Th 3:00pm - 3:50pm	MTH 0106	Discussion
0305	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	Tu 5:00pm - 6:50pm	PHY 3306	Lab
	Tu 4:00pm - 4:50pm	MTH 0401	Discussion
0306	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	Tu 11:00am - 12:50pm	PHY 3306	Lab
	Tu 10:00am - 10:50am	PHY 1402	Discussion
0307	Sergio Picozzi	Seats (Total: 26)	
	MWF 3:00pm - 3:50pm	PHY 1412	
	W 11:00am - 12:50pm	PHY 3306	Lab
	W 10:00am - 10:50am	PHY 1402	Discussion
0401	Sergio Picozzi	Seats (Total: 26)	
	M 7:00pm - 8:50pm	PHY 1410	
	W 7:00pm - 7:50pm	PHY 1410	
	M 5:00pm - 6:50pm	PHY 3306	Lab
	W 8:00pm - 8:50pm	PHY 1204	Discussion
0402	Sergio Picozzi	Seats (Total: 23)	
	M 7:00pm - 8:50pm	PHY 1410	
	W 7:00pm - 7:50pm	PHY 1410	
	W 8:00pm - 9:50pm	PHY 3306	Lab
	M 9:00pm - 9:50pm	PHY 1219	Discussion

0403	Sergio Picozzi	Seats (Total: 26)		
	M 7:00pm - 8:50pm	PHY 1410		
	W 7:00pm - 7:50pm	PHY 1410		
	W 5:00pm - 6:50pm	PHY 3306	Lab	
	W 4:00pm - 4:50pm	MTH 0106	Discussion	
SES1	Sergio Picozzi	Seats (Total: 3)		
	M 7:00pm - 8:50pm	PHY 1410		
	W 7:00pm - 7:50pm	PHY 1410		
	W 8:00pm - 9:50pm	PHY 3306	Lab	
	M 9:00pm - 9:50pm	PHY 1219	Discussion	
<i>This section is retriected to SIE majors only.</i>				

PHYS122

Fundamentals of Physics II

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: PL General Education: DSNL

Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department.

A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.

Physics Clinic, PHY 1214, MTWHF 11,2. If purchasing used books additional software may be required.

0301	Sergio Picozzi	Seats (Total: 24)		
	TuTh 3:30pm - 4:45pm	PHY 1410		
	Th 10:00am - 11:50am	PHY 3314	Lab	
	Th 9:00am - 9:50am	HBK 1112	Discussion	
0302	Sergio Picozzi	Seats (Total: 24)		
	TuTh 3:30pm - 4:45pm	PHY 1410		
	Th 12:00pm - 1:50pm	PHY 3314	Lab	
	Th 11:00am - 11:50am	CHM 1224	Discussion	
0303	Sergio Picozzi	Seats (Total: 24)		
	TuTh 3:30pm - 4:45pm	PHY 1410		
	M 2:00pm - 3:50pm	PHY 3314	Lab	
	M 1:00pm - 1:50pm	PHY 0405	Discussion	

0304	Sergio Picozzi	Seats (Total: 24)		
	TuTh 3:30pm - 4:45pm	PHY 1410		
	W 2:00pm - 3:50pm	PHY 3314	Lab	
	W 1:00pm - 1:50pm	PHY 1204	Discussion	
0501	Sergio Picozzi	Seats (Total: 24)		
	Tu 7:00pm - 8:50pm	PHY 1410		
	Th 7:00pm - 7:50pm	PHY 1410		
	W 6:00pm - 7:50pm	PHY 3314	Lab	
	W 5:00pm - 5:50pm	PHY 1204	Discussion	
0502	Sergio Picozzi	Seats (Total: 24)		
	Tu 7:00pm - 8:50pm	PHY 1410		
	Th 7:00pm - 7:50pm	PHY 1410		
	Tu 5:00pm - 6:50pm	PHY 3314	Lab	
	Tu 4:00pm - 4:50pm	PHY 0405	Discussion	
0503	Sergio Picozzi	Seats (Total: 24)		
	Tu 7:00pm - 8:50pm	PHY 1410		
	Th 7:00pm - 7:50pm	PHY 1410		
	M 7:00pm - 8:50pm	PHY 3314	Lab	
	M 6:00pm - 6:50pm	PHY 0405	Discussion	
SES1	Sergio Picozzi	Seats (Total: 24)		
	Tu 7:00pm - 8:50pm	PHY 1410		
	Th 7:00pm - 7:50pm	PHY 1410		
	Th 8:00pm - 9:50pm	PHY 3314	Lab	
	Tu 9:00pm - 9:50pm	PHY 1402	Discussion	
<p><i>This section is restricted to students who enroll through the Science i the Evening program and may not be added on Testudo. Click here for comp lete program details including program eligibility information, tuition and fee information and registration instructions.</i></p>				

PHYS131 Fundamentals of Physics for Life Sciences I

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH130, MATH131, and CHEM131; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121 or PHYS131.

The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.

Students must pay a \$50.00 lab materials fee.

0101	David Buehrle	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	PHY 1410		
	Th 9:00am - 10:50am	PHY 3310	Lab	
	Th 8:00am - 8:50am	PHY 3310	Discussion	
0102	David Buehrle	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	PHY 1410		
	Tu 9:00am - 10:50am	PHY 3310	Lab	
	Tu 8:00am - 8:50am	PHY 3310	Discussion	
0103	David Buehrle	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	PHY 1410		
	Th 3:00pm - 4:50pm	PHY 3310	Lab	
	Th 2:00pm - 2:50pm	PHY 3310	Discussion	
0201	David Buehrle	Seats (Total: 24)		
	MWF 11:00am - 11:50am	PHY 1410		
	W 9:00am - 10:50am	PHY 3310	Lab	
	W 8:00am - 8:50am	PHY 3310	Discussion	
0202	David Buehrle	Seats (Total: 24)		
	MWF 11:00am - 11:50am	PHY 1410		
	W 3:00pm - 4:50pm	PHY 3310	Lab	
	W 2:00pm - 2:50pm	PHY 3310	Discussion	
0203	David Buehrle	Seats (Total: 24)		
	MWF 11:00am - 11:50am	PHY 1410		
	M 3:00pm - 4:50pm	PHY 3310	Lab	
	M 2:00pm - 2:50pm	PHY 3310	Discussion	

PHYS132

Fundamentals of Physics for Life Sciences II

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122 or PHYS132.

The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.

Students must pay a \$50.00 lab materials fee.

0101	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	M 12:00pm - 1:50pm	PHY 3312	Lab	
	M 11:00am - 11:50am	PHY 3312	Discussion	
0102	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	W 12:00pm - 1:50pm	PHY 3312	Lab	
	W 11:00am - 11:50am	PHY 3312	Discussion	
0103	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	Tu 12:00pm - 1:50pm	PHY 3312	Lab	
	Tu 11:00am - 11:50am	PHY 3312	Discussion	
0104	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	Tu 3:00pm - 4:50pm	PHY 3312	Lab	
	Tu 2:00pm - 2:50pm	PHY 3312	Discussion	
0105	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	Th 9:00am - 10:50am	PHY 3312	Lab	
	Th 8:00am - 8:50am	PHY 3312	Discussion	
0106	Edward Redish	Seats (Total: 24)		
	MWF 10:00am - 10:50am	PHY 1412		
	Th 12:00pm - 1:50pm	PHY 3312	Lab	
	Th 11:00am - 11:50am	PHY 3312	Discussion	
0201	Benjamin Dreyfus	Seats (Total: 24)		
	TuTh 12:30pm - 1:45pm	PHY 1412		
	Tu 9:00am - 10:50am	PHY 3312	Lab	
	Tu 8:00am - 8:50am	PHY 3312	Discussion	

0202	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	W 3:00pm - 4:50pm	PHY 3312	Lab
	W 2:00pm - 2:50pm	PHY 3312	Discussion
0203	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 3:00pm - 4:50pm	PHY 3312	Lab
	M 2:00pm - 2:50pm	PHY 3312	Discussion
0204	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	W 9:00am - 10:50am	PHY 3312	Lab
	W 8:00am - 8:50am	PHY 3312	Discussion
0205	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	Th 3:00pm - 4:50pm	PHY 3312	Lab
	Th 2:00pm - 2:50pm	PHY 3312	Discussion
0206	Benjamin Dreyfus	Seats (Total: 24)	
	TuTh 12:30pm - 1:45pm	PHY 1412	
	M 6:00pm - 7:50pm	PHY 3312	Lab
	M 5:00pm - 5:50pm	PHY 3312	Discussion
SG91	Marco Colombini	Seats (Total: 24)	
	TuTh 9:30am - 10:45am	BLD3 2202	
	F 2:00pm - 4:50pm	BLD2 4012	Lab
	F 1:00pm - 1:50pm	BLD2 4012	Discussion
<i>Registration is restricted to Biological Sciences- Shady Grove majors. Permission is required for UMCP undergraduate students to enroll in courses at Shady Grove. Please email usgbiosci@umd.edu for permission.</i>			

PHYS161

General Physics: Mechanics and Particle Dynamics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.

Physics Clinic, PHY 1214, MTWHF 11, 1, 2. If purchasing used books additional software may be required.

0101	David Buehrle TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0102	David Buehrle TuTh 2:00pm - 3:15pm W 4:00pm - 4:50pm	Seats (Total: 30) PHY 1412 MTH 0105	Discussion
0103	David Buehrle TuTh 2:00pm - 3:15pm F 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 0405	Discussion
0104	David Buehrle TuTh 2:00pm - 3:15pm F 10:00am - 10:50am	Seats (Total: 30) PHY 1412 PHY 1204	Discussion
0105	David Buehrle TuTh 2:00pm - 3:15pm M 9:00am - 9:50am	Seats (Total: 30) PHY 1412 PHY 1204	Discussion
0106	David Buehrle TuTh 2:00pm - 3:15pm M 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 MTH 0304	Discussion
0107	David Buehrle TuTh 2:00pm - 3:15pm M 4:00pm - 4:50pm	Seats (Total: 30) PHY 1412 MTH 0101	Discussion
0108	David Buehrle TuTh 2:00pm - 3:15pm W 4:00pm - 4:50pm	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0109	David Buehrle TuTh 2:00pm - 3:15pm M 4:00pm - 4:50pm	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0110	David Buehrle TuTh 2:00pm - 3:15pm M 3:00pm - 3:50pm	Seats (Total: 30) PHY 1412 PHY 1219	Discussion

0301	David Buehrle MWF 2:00pm - 2:50pm Tu 3:00pm - 3:50pm	Seats (Total: 33) PHY 1412 PHY 0405	Discussion
0302	David Buehrle MWF 2:00pm - 2:50pm Tu 4:00pm - 4:50pm	Seats (Total: 34) PHY 1412 PHY 1204	Discussion
0303	David Buehrle MWF 2:00pm - 2:50pm Th 4:00pm - 4:50pm	Seats (Total: 34) PHY 1412 PHY 1219	Discussion
0304	David Buehrle MWF 2:00pm - 2:50pm F 10:00am - 10:50am	Seats (Total: 34) PHY 1412 MTH 0101	Discussion
0305	David Buehrle MWF 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 34) PHY 1412 EGR 2154	Discussion
0306	David Buehrle MWF 2:00pm - 2:50pm F 11:00am - 11:50am	Seats (Total: 34) PHY 1412 PHY 1204	Discussion
0307	David Buehrle MWF 2:00pm - 2:50pm Th 3:00pm - 3:50pm	Seats (Total: 34) PHY 1412 CHM 0122	Discussion
0308	David Buehrle MWF 2:00pm - 2:50pm Tu 4:00pm - 4:50pm	Seats (Total: 33) PHY 1412 MTH 0103	Discussion
0309	David Buehrle MWF 2:00pm - 2:50pm Th 4:00pm - 4:50pm	Seats (Total: 34) PHY 1412 PHY 1204	Discussion
0401	Theodore Kirkpatrick M 7:00pm - 8:50pm W 7:00pm - 7:50pm W 8:00pm - 8:50pm	Seats (Total: 30) PHY 1412 PHY 1412 PHY 1219	Discussion

0402	Theodore Kirkpatrick	Seats (Total: 30)	
	M 7:00pm - 8:50pm	PHY 1412	
	W 7:00pm - 7:50pm	PHY 1412	
	W 6:00pm - 6:50pm	PHY 1219	Discussion
0403	Theodore Kirkpatrick	Seats (Total: 30)	
	M 7:00pm - 8:50pm	PHY 1412	
	W 7:00pm - 7:50pm	PHY 1412	
	M 6:00pm - 6:50pm	PHY 1219	Discussion
0405	Theodore Kirkpatrick	Seats (Total: 30)	
	M 7:00pm - 8:50pm	PHY 1412	
	W 7:00pm - 7:50pm	PHY 1412	
	Tu 7:00pm - 7:50pm	PHY 1219	Discussion

PHYS165

Introduction to Programming in the Physical Sciences

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS171, PHYS141, or PHYS161; or must have scored 3 or higher on AP PHYS exam.

Introduction to programming using examples in the physical sciences. Provides instruction in the techniques of upper-level languages such as Fortran, C, and Pascal, as well as an introduction to the object oriented programming techniques used in Python, C++ and Java. Includes strong component of visualization and graphing.

0101	Matthew Severson	Seats (Total: 30)
	MWF 11:00am - 11:50am	CSS 1410

PHYS171

Introductory Physics: Mechanics and Relativity

Credits: 3 Grading Method: Regular, CORE: PS General Education: DSNS
Pass-Fail, Audit

Prerequisite: (MATH140; and a high school physics course); or permission of CMNS-Physics department. And must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171.

First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta, temperature and pressure, ideal gas law, and special relativity.

0101	Bei Lok Hu	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	PHY 1204
	F 12:00pm - 12:50pm	PHY 1204

PHYS174 Physics Laboratory Introduction

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: MATH140. Recommended: High school physics.

Introduces students to the techniques of data gathering and analysis. This course will lay a foundation for higher-level labs in physics and the physical sciences. Students will learn to use laboratory equipment such as calipers, meters, oscilloscopes, and computer interfaces. Techniques of measurement and error analysis will be presented. Students will be taught to use the computer for data analysis with an emphasis on using spreadsheets.

0201	Arpita Upadhyaya	Seats (Total: 26)	
	Tu 2:00pm - 3:50pm	PHY 3115	Lab
0301	Suresh Tonwar	Seats (Total: 26)	
	W 1:00pm - 2:50pm	PHY 3115	Lab
0401	Arpita Upadhyaya	Seats (Total: 26)	
	Th 11:00am - 12:50pm	PHY 3115	Lab
0501	Arpita Upadhyaya	Seats (Total: 26)	
	Th 2:00pm - 3:50pm	PHY 3115	Lab

PHYS260 General Physics: Vibration, Waves, Heat, Electricity and Magnetism

Credits: 3 Grading Method: Regular, General Education: DSNL (if
Pass-Fail, Audit taken with PHYS261)

Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.

Second semester of a three-semester calculus-based general physics course. Vibrations, waves, fluids; heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS260 and PHYS261 must be taken in the same semester.

If purchasing used books additional software may be required.

0201	Theodore Einstein MW 4:00pm - 5:15pm Tu 11:00am - 11:50am	Seats (Total: 34) PHY 1412 ITV 1100	Discussion
0202	Theodore Einstein MW 4:00pm - 5:15pm W 8:00am - 8:50am	Seats (Total: 34) PHY 1412 PHY 0405	Discussion
0203	Theodore Einstein MW 4:00pm - 5:15pm W 9:00am - 9:50am	Seats (Total: 34) PHY 1412 PHY 0405	Discussion
0204	Theodore Einstein MW 4:00pm - 5:15pm F 8:00am - 8:50am	Seats (Total: 34) PHY 1412 PHY 1204	Discussion
0205	Theodore Einstein MW 4:00pm - 5:15pm Tu 4:00pm - 4:50pm	Seats (Total: 34) PHY 1412 MTH 0101	Discussion
0206	Theodore Einstein MW 4:00pm - 5:15pm F 9:00am - 9:50am	Seats (Total: 34) PHY 1412 PHY 1204	Discussion
0301	Rabindra Mohapatra MWF 3:00pm - 3:50pm M 12:00pm - 12:50pm	Seats (Total: 31) PHY 1410 MTH 0303	Discussion
0302	Rabindra Mohapatra MWF 3:00pm - 3:50pm Th 11:00am - 11:50am	Seats (Total: 31) PHY 1410 CHM 2201	Discussion
0303	Rabindra Mohapatra MWF 3:00pm - 3:50pm F 1:00pm - 1:50pm	Seats (Total: 31) PHY 1410 PHY 1219	Discussion
0304	Rabindra Mohapatra MWF 3:00pm - 3:50pm F 11:00am - 11:50am	Seats (Total: 31) PHY 1410 MTH 0103	Discussion

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

0101	Frederick Wellstood M 6:00pm - 8:20pm	Seats (Total: 36) PHY 3219 Lab
0102	Frederick Wellstood M 12:00pm - 2:20pm	Seats (Total: 36) PHY 3219 Lab
0103	Frederick Wellstood W 6:00pm - 8:20pm	Seats (Total: 36) PHY 3219 Lab
0104	Frederick Wellstood Tu 2:00pm - 4:20pm	Seats (Total: 36) PHY 3219 Lab
0105	Frederick Wellstood Tu 5:00pm - 7:20pm	Seats (Total: 36) PHY 3219 Lab
0107	Frederick Wellstood W 11:00am - 1:20pm	Seats (Total: 36) PHY 3219 Lab
0108	Frederick Wellstood Th 12:00pm - 2:20pm	Seats (Total: 36) PHY 3219 Lab
0109	Frederick Wellstood Th 9:00am - 11:20am	Seats (Total: 36) PHY 3219 Lab
0110	Frederick Wellstood Th 3:00pm - 5:20pm	Seats (Total: 36) PHY 3219 Lab

PHYS261M General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory)

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Corequisite: PHYS260.

Lab includes experiments on mechanics, vibrations, waves, heat, electricity and magnetism. PHYS260 and PHYS261 (lab) must be taken in the same semester.

0101	Frederick Wellstood	Seats (Total: 10)
	Contact instructor or department for details.	
	<i>Restricted to students transferring a lab grade from a previous semester.</i>	

PHYS270

General Physics: Electrodynamics, Light, Relativity and Modern Physics

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSNL (if taken with PHYS271)

Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.

Third semester of a three-semester calculus-based general physics course. Electrodynamics, Maxwell's equations and electromagnetic waves, geometrical optics, interference, diffraction, special theory of relativity, and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

If purchasing used books additional software may be required.

0101	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	W 2:00pm - 2:50pm	MTH 0106 Discussion
0102	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	M 3:00pm - 3:50pm	MTH 0303 Discussion
0103	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	W 11:00am - 11:50am	MTH B0421 Discussion
0104	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	Th 8:00am - 8:50am	PHY 0405 Discussion
0105	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	Tu 8:00am - 8:50am	PHY 1204 Discussion
0106	Marguerite Tonjes	Seats (Total: 33)
	MWF 1:00pm - 1:50pm	PHY 1412
	M 11:00am - 11:50am	PHY 1204 Discussion

0201	Andrew Smith MWF 12:00pm - 12:50pm M 9:00am - 9:50am	Seats (Total: 33) PHY 1412 PHY 1402	Discussion
0202	Andrew Smith MWF 12:00pm - 12:50pm W 9:00am - 9:50am	Seats (Total: 33) PHY 1412 PHY 1402	Discussion
0203	Andrew Smith MWF 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 33) PHY 1412 CHM 0119	Discussion
0204	Andrew Smith MWF 12:00pm - 12:50pm M 11:00am - 11:50am	Seats (Total: 33) PHY 1412 MTH 0303	Discussion
0205	Andrew Smith MWF 12:00pm - 12:50pm W 11:00am - 11:50am	Seats (Total: 33) PHY 1412 PHY 1204	Discussion
0206	Andrew Smith MWF 12:00pm - 12:50pm W 10:00am - 10:50am	Seats (Total: 33) PHY 1412 PHY 0405	Discussion
0207	Andrew Smith MWF 12:00pm - 12:50pm M 10:00am - 10:50am	Seats (Total: 30) PHY 1412 PHY 1219	Discussion
0401	Konstantinos Papadopoulos MW 5:00pm - 6:15pm M 6:30pm - 7:20pm	Seats (Total: 34) PHY 1410 PHY 1204	Discussion
0402	Konstantinos Papadopoulos MW 5:00pm - 6:15pm W 6:30pm - 7:20pm	Seats (Total: 33) PHY 1410 PHY 1204	Discussion

PHYS271

General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

0101	Frederick Wellstood M 9:00am - 11:50am	Seats (Total: 36) PHY 3213	Lab
0102	Frederick Wellstood M 12:00pm - 2:50pm	Seats (Total: 36) PHY 3213	Lab
0103	Frederick Wellstood M 3:00pm - 5:50pm	Seats (Total: 36) PHY 3213	Lab
0104	Frederick Wellstood Tu 8:00am - 10:50am	Seats (Total: 36) PHY 3213	Lab
0105	Frederick Wellstood M 6:00pm - 8:50pm	Seats (Total: 36) PHY 3213	Lab
0106	Frederick Wellstood Tu 11:00am - 1:50pm	Seats (Total: 36) PHY 3213	Lab
0107	Frederick Wellstood Tu 4:00pm - 6:50pm	Seats (Total: 36) PHY 3213	Lab
0108	Frederick Wellstood W 5:00pm - 7:50pm	Seats (Total: 36) PHY 3213	Lab
0109	Frederick Wellstood Th 1:00pm - 3:50pm	Seats (Total: 36) PHY 3213	Lab
0110	Frederick Wellstood W 2:00pm - 4:50pm	Seats (Total: 36) PHY 3213	Lab
0111	Frederick Wellstood Th 9:00am - 11:50am	Seats (Total: 36) PHY 3213	Lab
0112	Frederick Wellstood Th 4:00pm - 6:50pm	Seats (Total: 36) PHY 3213	Lab
0113	Frederick Wellstood Th 7:00pm - 9:50pm	Seats (Total: 36) PHY 3213	Lab

0114	Frederick Wellstood	Seats (Total: 36)	
	Tu 7:00pm - 9:50pm	PHY 3213	Lab
0115	Frederick Wellstood	Seats (Total: 36)	
	W 8:00am - 10:50am	PHY 3213	Lab

PHYS271M General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS261. Corequisite: PHYS270.

Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.

0101	Frederick Wellstood	Seats (Total: 10)
	Contact instructor or department for details.	
	<i>Restricted to students transferring a lab grade from a previous semester.</i>	

PHYS272 Introductory Physics: Fields

Credits: 3 Grading Method: Regular, General Education: DSNL (if
Pass-Fail, Audit taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

Also offered as PHYS272H. Credit granted for PHYS272 or PHYS272H.

0101	Luis Orozco	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	PHY 1201
	F 12:00pm - 12:50pm	PHY 1201

PHYS272H Introductory Physics: Fields

(Perm req)

Credits: 3 Grading Method: Regular, General Education: DSNL (if
Pass-Fail, Audit taken with PHYS275)

Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, (PHYS260 and PHYS261) or PHYS272.. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS275.

Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.

For general honors students only. Also offered as PHYS272. Credit granted for PHYS272 or PHYS272H.

0101	Luis Orozco	Seats (Total: 60)
	TuTh 12:30pm - 1:45pm	PHY 1201
	F 12:00pm - 12:50pm	PHY 1201

PHYS273 Introductory Physics: Waves

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series and integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

Also offered as PHYS273H. Credit granted for PHYS273 or PHYS273H.

0101	Alberto Belloni	Seats (Total: 70)
	TuTh 9:30am - 10:45am	PHY 1410
	F 9:00am - 9:50am	PHY 1410

PHYS273H Introductory Physics: Waves

(Perm req) Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272. Corequisite: PHYS274. Credit only granted for: (PHYS270 and PHYS271) or PHYS273.

Oscillations and AC circuits using complex variables, Fourier series and integrals, waves on strings, sound; electromagnetic waves from Maxwell's equations in differential form; physical optics.

For general honors students only. Also offered as PHYS273. Credit granted for PHYS273 or PHYS273H.

0101	Alberto Belloni	Seats (Total: 70)
	TuTh 9:30am - 10:45am	PHY 1410
	F 9:00am - 9:50am	PHY 1410

PHYS274 Mathematical Methods for Physics I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH241 and PHYS272.

A first course in mathematical methods for physics. Topics include linear algebra, curvilinear coordinates and vector analysis.

0101	Adil Hassam	Seats (Total: 50)
	MWF 2:00pm - 2:50pm	PHY 1201

PHYS275 Experimental Physics I: Mechanics and Heat

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS161 or PHYS171; and PHYS174. Additional information: CORE Physical Science Lab (PL) Course only when taken concurrently with PHYS272.

Methods and rationale of experimental physics. Intended for physics majors and science and engineering students who desire a more rigorous approach. Experiments chosen from the areas of mechanics (from PHYS171), gas laws, and heats. Theory and applications of error analysis.

0101	Shabnam Jabeen	Seats (Total: 12)	
	W 2:00pm - 5:50pm	PHY 3104	Lab
0201	Shabnam Jabeen	Seats (Total: 12)	
	M 1:00pm - 4:50pm	PHY 3104	Lab
0301	Ki-Yong Kim	Seats (Total: 12)	
	Tu 2:00pm - 5:50pm	PHY 3104	Lab
0401	Ki-Yong Kim	Seats (Total: 12)	
	Th 2:00pm - 5:50pm	PHY 3104	Lab

PHYS276 Experimental Physics II: Electricity and Magnetism

(Perm req)

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS272 and PHYS275.

Second course in the three semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the fields of electricity and magnetism including electrostatics, magnetostatics, magnetic induction, AC circuits.

0101	Sarah Eno	Seats (Total: 12)	
	M 1:00pm - 4:50pm	PHY 3120	Lab
0201	Sarah Eno	Seats (Total: 12)	
	Tu 1:00pm - 4:50pm	PHY 3120	Lab
0301	Rajarshi Roy	Seats (Total: 12)	
	Th 2:00pm - 5:50pm	PHY 3120	Lab
0401	Rajarshi Roy	Seats (Total: 12)	
	W 2:00pm - 5:50pm	PHY 3120	Lab

PHYS299

Special Problems in Physics

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Contact department for information to register for this course.

PHYS299B

Special Problems in Physics; Developing a Physics Toolbox

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Prerequisite: PHYS174. Introduces students to the skills needed to become a successful physicist, but rarely taught in traditional undergraduate physics coursework. The skills covered will include scientific reading and writing skills, presentation skills as well as tools commonly used in physics research. As much as possible, this course will allow students to do real science as opposed to cookie-cutter experiments with known results.

0101	Timothy Uher	Seats (Total: 20)
	M 1:00pm - 2:50pm	PHY 1204
	Contact instructor or department for details.	
0201	Timothy Uher	Seats (Total: 1)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

PHYS299L Special Problems in Physics; Quantative Biology and Biophysics

(Perm req)

Credits: 3 Grading Method: Regular

Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.

Department permission required. The main focus of this course is to develop skill in carrying out research in small groups, and to tackle an authentic research question related to the dynamics of living systems. The motion and rearrangement of cells and the dynamics of a cell's components are key to understanding life, health and disease. With mentoring from a team of research scientists from the University of Maryland and the NIH, students will choose a specific open challenge and tackle it through group research.

0101	Wolfgang Losert, Satarupa Das, Arpita Upadhyaya	Seats (Total: 24)
	F 2:00pm - 3:50pm	PHY 1219
	Contact instructor or department for details.	

PHYS305 Physics Shop Techniques

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of CMNS-Physics department.

Machine tools, design and construction of laboratory equipment.

0101	Lester Putnam	Seats (Total: 1)
	Contact instructor or department for details.	

PHYS371 Modern Physics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274. Corequisite: PHYS373. Credit only granted for: PHYS371 or PHYS420. Additional information: This course is intended primarily for physics and astronomy majors.

Introduces students to special relativity, thermodynamics and quantum mechanics at an intermediate level.

0101	Christopher Monroe	Seats (Total: 50)
	MWF 1:00pm - 1:50pm	PHY 1201

PHYS373 Mathematical Methods for Physics II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS273 and PHYS274.

A second course in mathematical methods for physics. Topics include introduction to ordinary differential equations, partial differential equations, and complex analysis.

0101	James Drake	Seats (Total: 50)
	TuTh 2:00pm - 3:15pm	PHY 1204

PHYS375 Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics

(Perm req)

Credits: 3 Grading Method: Regular, General Education: DSSP
Pass-Fail, Audit

Prerequisite: PHYS276 and PHYS273.

Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.

0101	Wendell Hill, Andris Skuja	Seats (Total: 15)
	M 2:00pm - 2:50pm	PHY 1402
	M 3:00pm - 5:50pm	PHY 3203 Lab
0201	Wendell Hill, Andris Skuja	Seats (Total: 15)
	M 2:00pm - 2:50pm	PHY 1402
	Tu 3:00pm - 5:50pm	PHY 3203 Lab
0301	Wendell Hill, Andris Skuja	Seats (Total: 14)
	M 2:00pm - 2:50pm	PHY 1402
	W 3:00pm - 5:50pm	PHY 3203 Lab

PHYS386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Contact department for information to register for this course.

PHYS389 Undergraduate Thesis Research

(Perm req)

Credits: 1-6

Grading Method: Regular,
Pass-Fail, Audit

Independent directed research and study on a topic selected by the student in consultation with his or her advisor. Final written thesis and oral defense will be expected.

Contact department for information to register for this course.

PHYS398 Independent Studies Seminar

(Perm req)

Credits: 1-16

Grading Method: Regular,
Pass-Fail, Audit

Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.

Contact department for information to register for this course.

PHYS399 Special Problems in Physics

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

Contact department for information to register for this course.

PHYS399C Special Problems in Physics; Physics STEM Seminar

(Perm req)

Credits: 1-2

Grading Method: Regular,
Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Timothy Uher, Donna Hammer, Thomas	Seats (Total: 5)
	Gleason	
	Th 5:00pm - 6:20pm	PHY 3150

PHYS399E Special Problems in Physics; Physics STEM Seminar III

Credits: 2

Grading Method: Regular,
Pass-Fail, Audit

Selected advanced experiments. (Will be given with sufficient demand.)

0101	Thomas Gleason, Timothy Uher, Donna Hammer	Seats (Total: 5)
	Contact instructor or department for details.	

PHYS401 Quantum Physics I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS371 and PHYS373. Formerly: PHYS421.

Introduces some quantum phenomena leading to wave-particle duality. Schroedinger theory for bound states and scattering in one dimension. One-particle Schroedinger equation and the hydrogen atom.

0101	Gregory Sullivan	Seats (Total: 50)
	MWF 11:00am - 11:50am	PHY 1201
	M 10:00am - 10:50am	PHY 1201

PHYS402 Quantum Physics II

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS401.

Quantum states as vectors; spin and spectroscopy, multiparticle systems the periodic table, perturbation theory, band structure, etc.

0101	Ian Appelbaum	Seats (Total: 60)
	MWF 9:00am - 9:50am	PHY 1201
	W 10:00am - 10:50am	PHY 1201

PHYS404 Introduction to Statistical Thermodynamics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS273; or students who have taken courses with comparable content may contact the department.

Introduction to basic concepts in thermodynamics and statistical mechanics.

0101	Vladimir Manucharyan	Seats (Total: 75)
	TuTh 12:30pm - 1:45pm	PHY 1410

PHYS405**Advanced Experiments**

(Perm req)

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.

Advanced laboratory techniques. Selected experiments from many fields of modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.

0101	Luis Orozco, Abolhassan Jawahery	Seats (Total: 20)	
	W 12:00pm - 12:50pm	PHY 1219	Lab
	TBA	PHY 3112	Lab
0102	Abolhassan Jawahery, Luis Orozco	Seats (Total: 20)	
	W 12:00pm - 12:50pm	PHY 1219	Lab
	TBA	PHY 3112	Lab

PHYS407**Undergraduate Experimental Research**

(Perm req)

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit General Education: DSSP

Prerequisite: PHYS499 and PHYS375; and permission of CMNS-Physics department. Restriction: Must be in a major within CMNS-Physics department; and senior standing.

Students develop and complete an independent, experimental research project with a professor in the Physics Department. The project should be a continuation of work done in PHYS499A. To obtain permission, students must submit a proposal describing the experimental work to be completed and this proposal must be approved by their faculty mentor, the associate chair for undergraduate education and the chair of the laboratory committee. Students must maintain a lab notebook, give an oral presentation and complete a written report on their research that includes data and error analysis.

0101	Thomas Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS410**Classical Mechanics**

Credits: 4 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PHYS373.

Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics.

0101	Carter Hall	Seats (Total: 44)
	TuTh 11:00am - 12:15pm	PHY 0405
	F 10:00am - 10:50am	PHY 0405

PHYS411 Intermediate Electricity and Magnetism

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS373.

Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.

0101	Daniel Lathrop	Seats (Total: 44)
	TuTh 9:30am - 10:45am	PHY 0405
	M 10:00am - 10:50am	PHY 0405

PHYS420 Principles of Modern Physics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: MATH246. And PHYS271 and PHYS270; or PHYS273.

A survey of atomic and nuclear phenomena and the main trends in modern physics. Appropriate for students in engineering and other physical sciences.

0101	Jay Sau	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	PHY 1402

PHYS431 Properties of Matter

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS271, PHYS270, and MATH241; and (PHYS401 or PHYS420). Also offered as: ENMA460. Credit only granted for: ENMA460 or PHYS431.

Introduction to solid state physics. Electromagnetic, thermal, and elastic properties of metals, semiconductors, insulators and superconductors.

0101	Ichiro Takeuchi	Seats (Total: 15)
	MW 3:30pm - 4:45pm	EGR 0108

PHYS474**Computational Physics**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PHYS404; and PHYS373; and (PHYS165, CMSC106, or CMSC131).

This course provides an overview of some of the most widely used methods of computational physics, including numerical integration (elementary algorithms and Monte Carlo techniques), numerical solutions of differential equations (classical equations of motion, time independent and time dependent Schrodinger equations), molecular dynamics simulations (classical many-body systems), and Monte Carlo simulations (classical models of magnetism). In addition to giving the students a basic working knowledge of these particular techniques, the goal is to make them proficient in scientific computing and programming in general, so that they will be prepared to tackle also other computational problem that they may encounter in the future. The MATLAB programming language will be used.

0101	Jonathan McKinney	Seats (Total: 30)
	MW 3:00pm - 4:15pm	PHY 1402

PHYS499A**Special Problems in Physics**

(Perm req)

Credits: 1-6 Grading Method: Regular,
 Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499B**Special Problems in Physics**

(Perm req)

Credits: 1-16 Grading Method: Regular,
 Pass-Fail, Audit

Research or special study. Credit according to work done.

Contact department for information to register for this course.

PHYS499M**Special Problems in Physics; Physics, Material Chemistry and Device Applications at the Nanoscale**

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Research or special study. Credit according to work done.

Also offered as ENMA489X. Credit granted for PHYS499M or ENMA489X.

0101	Min Ouyang	Seats (Total: 10)
	Tu 2:00pm - 4:00pm	PHY 1201
	Tu 4:00pm - 4:50pm	PHY 1219

PHYS499T Special Problems in Physics; Accelerator Physics - Building the Maryland 5 MeV Cyclotron

(Perm req)

Credits: 3 Grading Method: Regular

Research or special study. Credit according to work done.

Prerequisite: ENEE380. Corequisite: ENEE381 or PHYS411; or permission of instructor. Restriction: Permission of ECE department. Cyclotrons are versatile accelerators whose use, because of an unsurpassed economic footprint, continues to expand in basic research, industry, medicine, and education. They also capture most of fundamental physics and technology of the biggest particle accelerators, such as CERN's LHC. This course provides students with a hands-on introduction to fundamental beam physics as well as the technology of cyclotrons, their design, commissioning, and operation. Students of this course will be designing and building a cyclotron.

0101	Timothy Koeth, Brian Beaudoin	Seats (Total: 12)
	TuTh 11:00am - 12:15pm	CHE 2140
	F 9:00am - 12:00pm	CHE 2140 Lab

PHYS603 Methods of Statistical Physics

(Perm req)

Credits: 3 Grading Method: Regular,
Audit*Credit only granted for: PHYS602 or PHYS603.**Foundations and applications of thermodynamics and statistical mechanics.*

Advanced special students require department authorization. Also offered as CHPH718F.

0101	Paulo Bedaque	Seats (Total: 49)
	TuTh 9:30am - 10:45am	PHY 1201

PHYS605 Graduate Physics Shop Techniques

(Perm req)

Credits: 1 Grading Method: Regular, Sat-
Fail*Restriction: Permission of CMNS-Physics department. Also offered as: PHYS305.**Proper use of machine tools to manufacture parts from metal alloys, and the importance and proper use of engineering documentation in the development process.*

0101	Lester Putnam	Seats (Total: 3)
	Contact instructor or department for details.	

PHYS606 Electrodynamics

Credits: 4 Grading Method: Regular, Audit

Prerequisite: PHYS604; or students who have taken courses with comparable content may contact the department.

Classical electromagnetic theory, electro- and magnetostatics, Maxwell equations, waves and radiation, special relativity.

0101	Thomas Antonsen	Seats (Total: 50)
	TuTh 11:00am - 12:40pm	PHY 1402

PHYS623 Introduction to Quantum Mechanics II

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Must have an outstanding undergraduate background in physics.

First and second semesters. A study of the Schroedinger equation, matrix formulations of quantum mechanics, approximation methods, scattering theory etc., and applications to solid state, atomic, and nuclear physics. Continuation of PHYS 622.

Advanced special students require department authorization.

0101	Theodore Jacobson	Seats (Total: 60)
	TuTh 2:00pm - 3:15pm	PHY 1402

PHYS625 Non-relativistic Quantum Mechanics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: PHYS623.

Non-relativistic second quantization, single particle Green's function, perturbation theory, linked cluster expansion, Feynman and Goldstone diagrams; applications to imperfect Fermi gases; superconductivity.

0101	Victor Galitskiy	Seats (Total: 30)
	MW 12:30pm - 1:45pm	PHY 1402

PHYS703 Introduction to Nonequilibrium Statistical Physics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PHYS603 or CHEM687; or permission of instructor. Credit only granted for: CHPH703, CHPH718B, CHEM703, CHEM718B, PHYS703, or PHYS798Z. Formerly: PHYS798Z.

Analysis and microscopic modeling of systems away from thermal equilibrium. Linear response theory, ergodicity, Brownian motion, Monte Carlo modeling, thermal ratchets, far-from-equilibrium fluctuation relations. Introduction to the theoretical tools of nonequilibrium phenomena and their application to problems in physics, chemistry and biology.

0101	Christopher Jarzynski	Seats (Total: 30)
	TuTh 9:30am - 10:45am	CSI 1122

PHYS708 Seminar in Teaching College Physics

Credits: 1 Grading Method: Regular,
Audit

0101	Ayush Gupta	Seats (Total: 15)
	Th 3:30pm - 4:45pm	PHY 0405

PHYS709 Seminar in General Physics; Statistical Physics

Credits: 1 Grading Method: Regular,
Audit

Also offered as CHPH709B. Credit granted for CHPH709B or PHYS709.

0101	Instructor: TBA	Seats (Total: 30)
	Tu 1:15pm - 2:30pm	IPT 1116

PHYS720 Quantum Technology

Credits: 3 Grading Method: Regular, Audit

Prerequisite: A good grounding in electromagnetism and quantum mechanics is necessary; familiarity with density matrices and master equations will be helpful.

Physical principles behind emerging quantum technologies, from quantum-limited amplifiers to atomic simulators. Examination of current and emerging platforms for quantum technologies, including neutral atom, ion trap, superconducting circuit, photonic, and spin-based approaches. Focus on hurdles for implementing quantum devices for new applications.

0101	Mohammad Hafezi, Jacob Taylor	Seats (Total: 30)
	MW 3:00pm - 4:15pm	PHY 1204

Seminar in Atomic and Molecular Physics

0101	Luis Orozco	Seats (Total: 30)
	M 11:00am - 12:50pm	CSS 2400

Solid State Physics: Survey

A variety of topics such as crystal structure, mechanical, thermal, electrical, and magnetic properties of solids, band structure, the Fermi surface, and superconductivity will be treated. Although the emphasis will be on the phenomena, the methods of quantum mechanics are freely employed in this description.

0101	James Williams	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	PHY 1204

Seminar in Experimental Solid State Physics; Quantum Mechanical Many-Body Problems

Advanced special students require department authorization.

0101	Johnpierre Paglione	Seats (Total: 30)
	Th 2:00pm - 3:30pm	PHY 1201

Seminar in Theoretical Solid State Physics; Quantum Mechanical Many-Body Problems

Advanced special students require department authorization.

0101	Victor Galitskiy	Seats (Total: 30)
	Th 2:00pm - 3:30pm	PHY 1201

Nuclear Physics: Survey

Prerequisite: PHYS623 and PHYS622.

An introductory survey of nuclear physics, including the following topics: properties of the two-nucleon force and the most popular phenomenological potentials; properties of nuclei including radii, shapes and charge distributions; introduction to nuclear structure models, including collective, independent particle, and shell model; basic features of radioactivity including weak interactions and alpha decay; introduction to nuclear reactions, including phenomenological optical potentials and distorted wave approximations.

0101	Xiangdong Ji	Seats (Total: 10)
	TuTh 2:00pm - 3:15pm	PSC 2148

PHYS748 Seminar in Experimental Nuclear Physics; Seminar in Nuclear Physics

Credits: 1 Grading Method: Regular,
Audit

0101	Carter Hall	Seats (Total: 10)
	W 11:30am - 1:00pm	PHY 2202

PHYS758E Seminar in Elementary Particles and Quantum Field Theory; Experimental Results Including Cosmic Ray Physics

Credits: 1 Grading Method: Regular,
Audit

0101	Nicholas Hadley	Seats (Total: 25)
	W 4:00pm - 5:30pm	PHY 0405

PHYS759 Seminar in Elementary Particles and Quantum Field Theory

Credits: 1 Grading Method: Regular,
Audit

Advanced special students require department authorization.

0101	Kaustubh Agashe	Seats (Total: 27)
	M 4:00pm - 4:50pm	PSC 3150

PHYS769 Seminar in Plasma Physics; Plasma Physics Research

Credits: 1 Grading Method: Regular,
Audit

Advanced special students require department authorization.

0101	Adil Hassam	Seats (Total: 20)
	W 3:45pm - 5:00pm	Location: TBA

PHYS778 Seminar in Space and Cosmic Ray Physics

Credits: 1 Grading Method: Regular,
Audit

Advanced special students require department authorization.

0101	Eun-Suk Seo	Seats (Total: 15)
	M 4:30pm - 5:45pm	CSS 2400

PHYS798 Special Problems in Advanced Physics

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Projects or special study in advanced physics.

Contact department for information to register for this course.

PHYS798B Special Problems in Advanced Physics; Physics Colloquium

Credits: 1 Grading Method: Regular,
Audit

Projects or special study in advanced physics.

0101	Thomas Cohen	Seats (Total: 100)
	Tu 4:00pm - 5:30pm	PHY 1412

PHYS798D Special Problems in Advanced Physics; Applied Dynamics Seminar

Credits: 1 Grading Method: Regular,
Audit

Projects or special study in advanced physics.

Also offered as ENEE698D. Credit granted ENEE698D or PHYS798D.

0101	Daniel Lathrop, Edward Ott	Seats (Total: 20)
	Th 12:30pm - 1:30pm	ERF 1207

PHYS798E Special Problems in Advanced Physics; Electrophysics

0101	Phillip Sprangle	Seats (Total: 41)
	Th 12:30pm - 1:45pm	PHY 4221

0101	Arpita Upadhyaya	Seats (Total: 10)
	M 4:00pm - 5:30pm	PHY 0405

0101	Steven Anlage	Seats (Total: 25)
	TuTh 9:30am - 10:45am	PHY 1219

0101	Thomas Cohen	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS838A

Credits: 2

Credit according to work done.

Also offered as CHPH718A. Credit granted for CHPH718A or PHYS838A.

0101	Theodore Einstein, William Cullen	Seats (Total: 3)
	M 12:00pm - 1:00pm	PHY 0405
	F 3:00pm - 5:00pm	PHY 1204

PHYS838C

Credits: 2

Credit according to work done.

0101	Richard Greene, Johnpierre Paglione	Seats (Total: 30)
	M 4:00pm - 6:00pm	PHY 1201

PHYS839A

Credits: 1-4

Credit according to work done.

0101	Sankar Das Sarma	Seats (Total: 10)
	Contact instructor or department for details.	

PHYS851

Credits: 3

Prerequisite: PHYS624.

Renormalization, unitarity, gauge theory, S-matrix construction.

0101	Zackaria Chacko	Seats (Total: 25)
	TuTh 11:00am - 12:20pm	PHY 1219

PHYS889E

Special Topics in Interdisciplinary Problems; Seminar in Physics Education Research

Credit according to work done.

0101	Ayush Gupta	Seats (Total: 10)
	W 11:00am - 12:30pm	PHY 1303

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

PLSC Plant Sciences Spring 2016

PLSC100 Introduction to Horticulture

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: LL General Education: DSNL

An overview to the art and science of horticulture. Relationships between plant science and plant production, the use of horticultural plants and plant stress as influenced by cultural practices.

Students must pay a \$50.00 lab materials fee.

0101	Christopher Walsh	Seats (Total: 24)	
	TuTh 11:00am - 12:15pm	SHM 2102	
	M 2:00pm - 4:20pm	PLS 1153	Lab
	M 1:00pm - 1:50pm	PLS 1153	Discussion
0102	Christopher Walsh	Seats (Total: 24)	
	TuTh 11:00am - 12:15pm	SHM 2102	
	Tu 1:30pm - 3:50pm	PLS 1153	Lab
	Tu 12:30pm - 1:20pm	PLS 1153	Discussion
0103	Christopher Walsh	Seats (Total: 24)	
	TuTh 11:00am - 12:15pm	SHM 2102	
	W 2:00pm - 4:20pm	PLS 1153	Lab
	W 1:00pm - 1:50pm	PLS 1153	Discussion

0104	Christopher Walsh	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	SHM 2102		
	Th 1:30pm - 3:50pm	PLS 1153	Lab	
	Th 12:30pm - 1:20pm	PLS 1153	Discussion	
0105	Christopher Walsh	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	SHM 2102		
	M 10:00am - 12:20pm	PLS 1153	Lab	
	M 9:00am - 9:50am	PLS 1153	Discussion	
0106	Christopher Walsh	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	SHM 2102		
	W 10:00am - 12:20pm	PLS 1153	Lab	
	W 9:00am - 9:50am	PLS 1153	Discussion	
0107	Christopher Walsh	Seats (Total: 24)		
	TuTh 11:00am - 12:15pm	SHM 2102		
	F 10:00am - 12:20pm	PLS 1153	Lab	
	F 9:00am - 9:50am	PLS 1153	Discussion	

PLSC226

Plant Diversity

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC201; or permission of instructor.

Students will learn to identify and understand relationships among major plant families of northeastern North America, especially of the Mid-Atlantic region, through lecture, field, and laboratory study. Characteristics and biogeography of and evolutionary relationships among families are emphasized in lecture. These characteristics will be woven together to provide understanding of the ecological and evolutionary drivers of plant diversity and the history of the field. Sight identification of families, genera, and species and keying skills are stressed in field and laboratory sessions.

0101	Maile Neel	Seats (Total: 10)		
	TuTh 12:30pm - 1:45pm	PLS 1146		
	Th 9:30am - 12:20pm	PLS 1153	Lab	

PLSC235

Irrigation and Drainage

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: PLSC235 or PLSC489I. Formerly: PLSC489I.

An overview of U.S. and state water doctrines and plant water use rates Irrigation systems for residential and athletic field use will be discussed covering such topics as hydraulics, sprinkler spacing, pipe selection and sizing, pumps, controllers, valves, and irrigation trouble shooting. Surface and subsurface drainage for turfgrass sites will also be covered.

0101	Justin Mathias	Seats (Total: 22)
	TuTh 11:00am - 1:00pm	JUL 1123

PLSC254 Woody Plants for Mid-Atlantic Landscape II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC100 and PLSC253; or permission of instructor.

A field and laboratory study of trees, shrubs, and vines used in ornamental plantings. Major emphasis is placed on introduced and evergreen plant materials.

0101	Lea Johnson	Seats (Total: 24)
	WF 1:00pm - 1:50pm	PLS 1140
	F 2:00pm - 4:50pm	PLS 1153 Lab
0102	Lea Johnson	Seats (Total: 24)
	WF 1:00pm - 1:50pm	PLS 1140
	F 2:00pm - 4:50pm	PLS 1117 Lab

PLSC271 Plant Propagation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC100; or (BSCI170 and BSCI171); or BSCI105.

A study of the principles and practices in the propagation of plants.

0101	Gary Coleman	Seats (Total: 12)
	TuTh 2:00pm - 2:50pm	PLS 1117
	Tu 3:30pm - 5:15pm	PLS 1117 Lab
0102	Gary Coleman	Seats (Total: 12)
	TuTh 2:00pm - 2:50pm	PLS 1117
	Th 3:30pm - 5:15pm	PLS 1117 Lab

PLSC275 Fundamentals of Agricultural Chemistry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132. And PLSC100; or PLSC101; or (BSCI160 and BSCI161); or (BSCI170 and BSCI171); or BSCI105; or BSCI106. Restriction: Must not have completed CHEM104 or CHEM105. And must be in a major within the AGNR-Plant Science & Landscape Architecture department; or must be in a major within the AGNR-Animal & Avian Sciences department; or permission of instructor. Credit only granted for: PLSC275, CHEM104, or CHEM105.

An in-depth discussion of chemistry targeted to students enrolled in plant and animal management curricula offered in AGNR. Covers the nomenclature and basic functional groups in organic chemistry, secondary plant metabolites, basic tenets of organic agriculture and the creation of genetically-modified plants. The chemistry, handling and usage of agricultural pesticides is also discussed.

0101	Christopher Walsh	Seats (Total: 40)
	TuTh 3:30pm - 4:45pm	PLS 1119

PLSC388 Honors Thesis Research

Credits: 3-6 Grading Method: Regular,
Pass-Fail, Audit

Undergraduate honors thesis research conducted under the direction of a AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	
	Contact instructor or department for details.	

PLSC399 Special Problems in Plant Science

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.

0401	Mark Carroll	Seats (Total: 10)
	Contact instructor or department for details.	
0801	Steven Cohan	Seats (Total: 10)
	Contact instructor or department for details.	
1001	Gary Coleman	Seats (Total: 10)
	Contact instructor or department for details.	

1801	Kathryne Everts	Seats (Total: 10)
	Contact instructor or department for details.	
2801	John Lea-Cox	Seats (Total: 10)
	Contact instructor or department for details.	
3201	Lea Johnson	Seats (Total: 10)
	Contact instructor or department for details.	
3601	Maile Neel	Seats (Total: 10)
	Contact instructor or department for details.	
4201	Joseph Roberts	Seats (Total: 10)
	Contact instructor or department for details.	
4401	William Phillips	Seats (Total: 10)
	Contact instructor or department for details.	
4601	Joseph Sullivan	Seats (Total: 10)
	Contact instructor or department for details.	
5201	Christopher Walsh	Seats (Total: 10)
	Contact instructor or department for details.	
5601	Priscila Chaverri	Seats (Total: 10)
	Contact instructor or department for details.	
6001	Cassandra Swett	Seats (Total: 10)
	Contact instructor or department for details.	
6201	Jianhua Zhu	Seats (Total: 10)
	Contact instructor or department for details.	
6401	James Culver	Seats (Total: 10)
	Contact instructor or department for details.	
7001	Shirley Micallef	Seats (Total: 10)
	Contact instructor or department for details.	
7201	Kate Tully	Seats (Total: 10)
	Contact instructor or department for details.	
7401	Angus Murphy	Seats (Total: 10)
	Contact instructor or department for details.	

7601	Burkhard Schulz	Seats (Total: 10)
	Contact instructor or department for details.	

PLSC400 Environmental Plant Physiology

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or BSCI105; or PLSC201. And CHEM231 and CHEM232; or CHEM237; or permission of AGNR-Plant Science & Landscape Architecture department. Also offered as: ENST407, BSCI442. Credit only granted for: BSCI442, ENST407 or PLSC400.

A survey of plant physiology and development responses and adaptation to the environment.

0101	Wendy Peer, Jose Feijo	Seats (Total: 13)
	MWF 11:00am - 11:50am	PLS 1130
	Tu 9:30am - 12:30pm	PLS 1153 Lab
0102	Jose Feijo, Wendy Peer	Seats (Total: 10)
	MWF 11:00am - 11:50am	PLS 1130
	Tu 4:00pm - 7:00pm	PLS 1153 Lab

PLSC401 Pest Management Strategies for Turfgrass

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC305.

Interdisciplinary view of weed, disease, and insect management from an agronomy perspective. Plant responses to pest invasion, diagnosis of pest-related disorders, and principles of weed, disease and insect suppression through cultural, biological and chemical means are discussed.

0101	Joseph Roberts	Seats (Total: 20)
	TuTh 8:00am - 9:15am	PBR 1102

PLSC405 Agroecology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit, Sat-Fail

Prerequisite: At least one course in ecology; or permission of instructor. Recommended: BSCI361 or PLSC471; or any BSCI or ENST ecology course. Credit only granted for: PLSC405 or PLSC605. Additional information: Class will be held on campus, with two day-long field trips to local farms.

How can we balance the multiple, and often competing objectives of sustainable agricultural intensification to promote both agricultural productivity and human wellbeing? The answer to this question requires a transdisciplinary, agroecological perspective. Agroecology is the integrative study of the ecology of the entire food system, encompassing ecological, economic and social dimensions. This course is designed to introduce various topics in agroecology (e.g. organic agriculture, biodiversity, the Farm Bill). We will take an ecosystems approach to the study of agriculture that will enable students to analyze the environmental, social, and economic interconnections within various types of agricultural systems locally and globally.

0101	Kate Tully	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	PLS 1162

PLSC407 Advanced Crop Science

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC101. And BSCI170 and BSCI171; or BSCI105.

A study of principles of production for forage crops, corn, small grains, rice, millets, sorghums, soybeans and other oil seed crops. Their seed production, processing, distribution and the current federal and state seed control programs for these agronomic crops will also be discussed.

0101	William Phillips	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	PLS 1158

PLSC410 Commercial Turf Maintenance and Production

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC305; or permission of AGNR-Plant Science & Landscape Architecture department.

Agronomic programs and practices used in hydroseeding, commercial lawn care, sod production and seed production. Current environmental, regulatory and business management issues confronting the turfgrass industry.

0101	Mark Carroll	Seats (Total: 20)
	Contact instructor or department for details.	

PLSC425 Green Roofs and Urban Sustainability

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: PLSC425 or PLSC489V. Formerly: PLSC489V.

The integration of disciplines associated with sustainability issues. Topics range from plant science to design to policy, all of which can contribute to improving the urban environment.

0101	Steven Cohan	Seats (Total: 65)
	Tu 11:00am - 12:15pm	PLS 1130

PLSC432 Greenhouse Crop Production

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC201 and PLSC202; and must have completed or be concurrently enrolled in BSCI442.

The commercial production and marketing of ornamental plant crops under greenhouse, plastic houses and out-of-door conditions.

0101	John Lea-Cox	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	PLS 1146
	Th 5:00pm - 7:00pm	RGC 1111 Lab

PLSC452 Environmental Horticulture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC100 or PLSC101; and (PLSC253 and PLSC254).

Environmental horticulture principles used in the establishment and maintenance of plant materials in residential and commercial landscapes will be addressed. The effect of soil conditions, environmental factors, and commercial practices will be discussed in relation to the growth and development of newly-installed plant materials. Field diagnostics will be used by students to assess significant problems of plant decline. Environmental sustainability will be combined with current commercial practices of storm water management, nutrient management, and irrigation management to achieve an integrated approach to plant management.

Students must pay a \$60.00 lab materials fee.

0101	Steven Cohan	Seats (Total: 20)
	MW 12:00pm - 12:50pm	PLS 1113
	W 1:00pm - 3:50pm	PLS 1113 Lab

PLSC460 Application of Knowledge in Plant Sciences

Credits: 3 Grading Method: Regular, CORE: CS General Education: DSSP
Pass-Fail, Audit

Prerequisite: PLSC100 or PLSC101; or permission of instructor. Recommended: ENGL393 and ENST200; and (PLSC389 or PLSC399). Restriction: Senior standing or higher. And must be in a major within AGNR-Plant Science & Landscape Architecture department; or must be in another related major.

A capstone course based on interactions with plant science professional and student-led class discussions. Students will apply their knowledge and experience to practical issues in the discipline, further develop critical thinking ability, and enhance their communication, teamwork, and professional skills. Topics will include nutrient management, integrated pest management, plant interactions with urban and rural ecosystems, planning of public grounds, plant biotechnology, and teaching skills.

0101	William Phillips	Seats (Total: 25)
	Tu 12:30pm - 3:15pm	PLS 1115

PLSC480 Urban Ecology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PLSC471, ENST360, or BSCI363; or other coursework/experience considered for instructor permission. Additional information: Class will be held both on campus and at other locations such as the U.S. Botanic Garden, local parks, and urban and suburban locations off campus.

Cities are rapidly increasing in number and size across the globe, transforming local ecosystems. This course examines urban environments as coupled social-ecological systems at multiple scales, from streets and parks to urban landscapes patterns and global patterns of biodiversity. Ecological principles are applied in the urban context, including habitats, biodiversity, ecological processes, and ecosystem services of urban environments, with applications to problems in urban land management, decision-making and design.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Lea Johnson	Seats (Total: 20)
	W 9:00am - 12:00pm	PLS 1164

PLSC489D Special Topics in Plant Science; Low Maintenance Plant Design

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 5)
	Contact instructor or department for details.	

PLSC489G Special Topics in Plant Science; Communications in the Green Industry

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 10)
Contact instructor or department for details.		

PLSC489N Special Topics in Plant Science; Communication in the Green Industry II

(Perm req)

Credits: 2 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

0101	Steven Cohan	Seats (Total: 10)
Contact instructor or department for details.		

PLSC489O Special Topics in Plant Science; Plant Taxonomy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

Students will learn to identify and understand relationships among major plant families of northeastern North America, especially of the Mid-Atlantic region, through lecture, field, and laboratory study. Characteristics and biogeography of and evolutionary relationships among families are emphasized in lecture. These characteristics will be woven together to provide understanding of the ecological and evolutionary drivers of plant diversity and the history of the field. Sight identification of families, genera, and species and keying skills are stressed in field and laboratory sessions.

0101	Maile Neel	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	PLS 1146
	Th 9:30am - 12:20pm	PLS 1153 Lab

PLSC489V Special Topics in Plant Science; Fruit and Vegetable Production and Management

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

Contact department for information to register for this course.

PLSC489W Special Topics in Plant Science; Plant-Microbe Associations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.

Plants turn sunlight into sugar. Thus, plants are rich sources of "food" to diverse microbial communities. Some microbes choose to "earn" food from plants by providing host plants benefit; while others "steal" or "seize" food from their hosts. Understanding the diverse relationships between plants and their associated microbes is very important for crop protection and food security. This course features a comparative analysis of the ecology, physiology and genetics of plant - microbe interactions along with their impact on society and the surrounding ecosystem. Students will become familiar with the diverse array of plant microbe interactions that occur in agricultural and natural settings. These include: (i) pathogenic strategies used by diverse pathogens to overcome the immune system of plants and cause disease, (ii) the molecular mechanisms by which plants recognize invading pathogens and elicit immune responses, including the co-evolutionary host-pathogen arms-race, (iii) exploration of the mechanisms used by human pathogens to associate with plants and their impact on food safety and (iv) the symbiotic relationships between plants and microbes.

0101	Shunyuan Xiao, James Culver	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PLS 1172

PLSC605 Agroecology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: At least one course in ecology or instructor permission. Recommended: BSCI361 or PLSC471; or any BSCI or ENST ecology course. Additional information: Class will be held on campus, with two day-long field trips to local farms.

How can we balance the multiple, and often competing objectives of sustainable agricultural intensification to promote both agricultural productivity and human wellbeing? The answer to this question requires a transdisciplinary, agroecological perspective. Agroecology is the integrative study of the ecology of the entire food system, encompassing ecological, economic and social dimensions. This course is designed to introduce various topics in agroecology (e.g. organic agriculture, biodiversity, the Farm Bill). We will take an ecosystems approach to the study of agriculture that will enable students to analyze the environmental, social, and economic interconnections within various types of agricultural systems locally and globally. Students will be required to plan and execute group discussions and learning activities.

0101	Kate Tully	Seats (Total: 10)
	TuTh 12:30pm - 1:45pm	PLS 1162

PLSC608T Research Methods; Supervised Teaching

Credits: 2 Grading Method: Regular,
 Audit

An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.

5201	Christopher Walsh	Seats (Total: 5)
Contact instructor or department for details.		
6201	Jianhua Zhu	Seats (Total: 5)
Contact instructor or department for details.		

PLSC685 Advanced Plant Ecophysiology

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: Must have completed one course in plant physiology. Credit only granted for: NRSC685 or PLSC685. Formerly: NRSC685.

Growth, productivity and survival are intimately linked to a plant's ability to adjust to its environment. The information provided in this course is designed to provide an introduction to the basic physical and physiological principles necessary for understanding the interactions between plants and their environment. The overall objective of this course is to understand plant responses and adaptations to the environment and the ecological relevance of these responses.

0101	Joseph Sullivan	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	PLS 1146

PLSC689A Special Topics; Seminars in Plant Science and Landscape Architecture

Credits: 1 Grading Method: Regular,
 Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Shirley Micallef	Seats (Total: 60)
	Th 4:00pm - 4:50pm	PLS 1140
	F 9:30am - 10:20am	PLS 2107 Discussion

PLSC689B Special Topics; Signal Transduction Pathways in Plant Abiotic Stresses Responses

Credits: 2 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Plants on earth are frequently challenged by the changing physical environment, which often generates various biotic and abiotic stresses including UV radiation, salinity, drought, nutrition deficiencies, and temperature extremes. Such abiotic stresses limit the productivity and quality of crop plants worldwide. This course will survey current advances in elucidation of the molecular mechanisms that plants have evolved to cope with abiotic stresses with the long-term goal of enhancing awareness of the public to these issues and improving sustainability of agriculture under the changing global climates.

0101	Jianhua Zhu	Seats (Total: 10)
	M 3:00pm - 4:50pm	PLS 1146

PLSC689C Special Topics; Conservation Biology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Prerequisite: permission of department.

0101	Maile Neel	Seats (Total: 8)
	Contact instructor or department for details.	

PLSC689K Special Topics; Landscape Genetics

Credits: 2 Grading Method: Regular

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

This course covers basic theory underlying the field of landscape genetics and demonstrates application of that theory in real cases. Landscape genetics is a multidisciplinary field at the intersection of population genetics and landscape ecology. In this blended course, lectures will be given remotely by some of the leaders in the field. Lectures will be followed by local discussion and then a summary online discussion with classes at the other universities. You must attend the local class meeting and participate in the discussions. There will some homework assignments created by the instructors that you will turn in locally. An optional lab section (PLSC689L) is offered to provide hands on use of statistical techniques used to analyze landscape genetic data.

0101	Maile Neel	Seats (Total: 20)
	W 11:30am - 1:30pm	PLS 1111

PLSC689L Special Topics; Landscape Genetics

Credits: 2 Grading Method: Regular

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

This lab complements the material presented in PLSC689K and registration in that course is required to enroll in this lab. Students will analyze landscape genetic data using statistical techniques in R and specialized programs. Lab time is available for working on these assignments but their completion will require additional time outside of the formal lab period. Familiarity with use of R will be helpful but is not required. Basic use of R will be covered at the beginning of the term.

0101	Maile Neel	Seats (Total: 20)
	F 1:30pm - 3:30pm	PLS 2137

PLSC689N Special Topics; Field Methods in Plant Disease Diagnosis, Management and Research

Credits: 3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Field and laboratory techniques in plant disease diagnosis, management and research; identification of diseases of small grains, corn, soybean, vegetables, fruit, turf, forest and shade trees, and ornamentals in field trips and laboratory exercises. Includes fundamentals of pathogen life cycles and management and instruction on preparation of a commodity grant research proposal and methods of outreach education. Overall aim is to develop skills relevant to applied areas of plant pathology.

0101	Cassandra Swett, Joseph Roberts	Seats (Total: 6)
	Contact instructor or department for details.	

PLSC689T Special Topics; Tree Genomics

Credits: 1-3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

0101	Gary Coleman	Seats (Total: 15)
	Contact instructor or department for details.	

PLSC689W Special Topics; Plant-Microbe Associations

Credits: 3 Grading Method: Regular, Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.

Plants turn sunlight into sugar. Thus, plants are rich sources of "food" to diverse microbial communities. Some microbes choose to "earn" food from plants by providing host plants benefit; while others "steal" or "seize" food from their hosts. Understanding the diverse relationships between plants and their associated microbes is very important for crop protection and food security. This course features a comparative analysis of the ecology, physiology and genetics of plant - microbe interactions along with their impact on society and the surrounding ecosystem. Students will become familiar with the diverse array of plant microbe interactions that occur in agricultural and natural settings. These include: (i) pathogenic strategies used by diverse pathogens to overcome the immune system of plants and cause disease, (ii) the molecular mechanisms by which plants recognize invading pathogens and elicit immune responses, including the co-evolutionary host-pathogen arms-race, (iii) exploration of the mechanisms used by human pathogens to associate with plants and their impact on food safety and (iv) the symbiotic relationships between plants and microbes.

0101	James Culver, Shunyuan Xiao	Seats (Total: 10)
	TuTh 9:30am - 10:45am	PLS 1172

PLSC789F Advances in Research; Critiquing Primary Plant Science Literature

Credits: 1 Grading Method: Regular,
Audit

Discussion of advances in plant science research based on classic and current scientific literature.

0101	Mark Carroll, Maile Neel	Seats (Total: 15)
	Tu 3:30pm - 4:45pm	PLS 1164

PLSC789M Advances in Research; Plant Membrane Biology

Credits: 1 Grading Method: Regular,
Audit

Discussion of advances in plant science research based on classic and current scientific literature.

0101	Angus Murphy, Wendy Peer	Seats (Total: 10)
	Contact instructor or department for details.	

PLSC799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Satisfail

Contact department for information to register for this course.

PLSC898 **Pre-Candidacy Research**
Credits: 1-8 Grading Method: Regular
Contact department for information to register for this course.

PLSC899 **Doctoral Dissertation Research**
(Perm req)
Credits: 6 Grading Method: Regular, Sat-Fail
Contact department for information to register for this course.

PORT **Portuguese** **Spring 2016**

PORT104 **Intensive Elementary Portuguese**
Credits: 4 Grading Method: Regular, Pass-Fail, Audit
Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score.
Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.
Contact department for information to register for this course.

PORT204 **Intensive Intermediate Portuguese**
Credits: 4 Grading Method: Regular, Pass-Fail, Audit
Prerequisite: PORT104; or must have appropriate Foreign Language Placement Test (FLPT) score.
Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.

0101	Thayse Lima	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 1224
	W 11:00am - 11:50am	JMZ 0120

PORT223 **Portuguese Culture**
Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO
Political, social, intellectual, and literary forces shaping culture of contemporary Portugal from the formation of the country to the present. Taught in English.

0101	Regina Igel	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	JMZ 2123

PORT229A Selected Topics in Latin American Culture; Villains, Heroes, and Deviants: Representations of the Bandit in Latin American Culture

Credits: 3 Grading Method: Regular,
Pass-Fail

General Education: DSHU

Varied topics in Latin America culture.

Also offered as SPAN229A and LASC248A. Credit granted for LASC248A, PORT229A or SPAN229A. Exploration of the diverse roles played by the bandit in Latin American fiction, film, photography, and other media; and of the historical, political, and social contexts that have contributed to their popular place in the cultural imagination. Taught in English.

0101	Thayse Lima	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0205

PORT386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department; and junior standing or higher.

Contact department for information to register for this course.

PORT399 Independent Study in Portuguese

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Specific readings in literature under the supervision of a faculty member of the department.

Contact department for information to register for this course.

PORT405 Portuguese for Spanish Speakers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must have native or acquired fluency in Spanish.

Intensive basic grammar, reading and auditory comprehension. Native or acquired fluency in Spanish required.

0101	Regina Igel	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 1117

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available. The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 Introduction to Psychology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, DSNS

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Discussion sections do not meet until after first lecture. Research requirement: may involve participation in research.

[Click here for course syllabus.](#)

0101	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 9:00am - 9:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0102	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0103	Ryan Curtis	Seats (Total: 40)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 11:00am - 11:50am	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0104	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 1:00pm - 1:50pm	BPS 1238	Discussion
	Class time/details on ELMs	ONLINE	Discussion
0105	Ryan Curtis	Seats (Total: 30)	
	W 4:00pm - 5:20pm	BRB 1101	
	F 2:00pm - 2:50pm	BPS 1236	Discussion
	Class time/details on ELMs	ONLINE	Discussion

0106	Ryan Curtis	Seats (Total: 30)		
	W 4:00pm - 5:20pm	BRB 1101		
	F 9:00am - 9:50am	BPS 1236	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0107	Ryan Curtis	Seats (Total: 30)		
	W 4:00pm - 5:20pm	BRB 1101		
	F 11:00am - 11:50am	BPS 1238	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0108	Ryan Curtis	Seats (Total: 30)		
	W 4:00pm - 5:20pm	BRB 1101		
	F 11:00am - 11:50am	BPS 1236	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0109	Ryan Curtis	Seats (Total: 30)		
	W 4:00pm - 5:20pm	BRB 1101		
	F 1:00pm - 1:50pm	BPS 1238	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0110	Ryan Curtis	Seats (Total: 30)		
	W 4:00pm - 5:20pm	BRB 1101		
	F 2:00pm - 2:50pm	BPS 1236	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0201	Dylan Selterman	Seats (Total: 30)		
	Th 3:30pm - 4:50pm	BRB 1101		
	F 9:00am - 9:50am	BPS 0283	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0202	Dylan Selterman	Seats (Total: 30)		
	Th 3:30pm - 4:50pm	BRB 1101		
	F 10:00am - 10:50am	BPS 0283	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	
0203	Dylan Selterman	Seats (Total: 30)		
	Th 3:30pm - 4:50pm	BRB 1101		
	F 11:00am - 11:50am	BPS 0283	Discussion	
	Class time/details on ELMs	ONLINE	Discussion	

0204	Dylan Selterman Th 3:30pm - 4:50pm F 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0205	Dylan Selterman Th 3:30pm - 4:50pm F 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0206	Dylan Selterman Th 3:30pm - 4:50pm F 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0207	Dylan Selterman Th 3:30pm - 4:50pm F 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0208	Dylan Selterman Th 3:30pm - 4:50pm F 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0209	Dylan Selterman Th 3:30pm - 4:50pm F 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion
0210	Dylan Selterman Th 3:30pm - 4:50pm F 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 30) BRB 1101 BPS 0283 ONLINE	Discussion Discussion

PSYC123

The Psychology of Getting Hired

Credits: 1

Grading Method: Regular

Designed to introduce students to the science behind the hiring process and to prepare individuals with the academic and practical training required. Together we will explore psychological principles that influence the selection process and how individuals can apply them for the competitive edge that makes others Fear the Turtle!

0101	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0201	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0301	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0401	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0501	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0601	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0701	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE
0801	Kelley Bishop	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

PSYC200

Statistical Methods in Psychology

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: FSAR

Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (MATH220, STAT100, MATH111, MATH130, MATH140). Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

A basic introduction to quantitative methods used in psychological research.

Restricted to PSYC, ENSP and BSCI majors. All other majors require permission in BPS 1107.

[Click here for course syllabus.](#)

0101	Tracy Tomlinson	Seats (Total: 30)
	TuTh 8:00am - 9:15am	BPS 1250
	M 9:00am - 9:50am	BPS 1238
	Class time/details on ELMs	ONLINE
		Discussion
		Discussion

0102	Tracy Tomlinson TuTh 8:00am - 9:15am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 30) BPS 1250 BPS 1238 ONLINE	Discussion Discussion
0103	Tracy Tomlinson TuTh 8:00am - 9:15am M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 30) BPS 1250 BPS 1238 ONLINE	Discussion Discussion
0104	Tracy Tomlinson TuTh 8:00am - 9:15am M 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 30) BPS 1250 BPS 1238 ONLINE	Discussion Discussion
0105	Tracy Tomlinson TuTh 8:00am - 9:15am M 2:00pm - 2:50pm Class time/details on ELMs	Seats (Total: 30) BPS 1250 BPS 1238 ONLINE	Discussion Discussion
0201	Tracy Tomlinson TuTh 9:30am - 10:45am M 9:00am - 9:50am Class time/details on ELMs	Seats (Total: 24) BPS 1243 BPS 1228 ONLINE	Discussion Discussion
0202	Tracy Tomlinson TuTh 9:30am - 10:45am M 10:00am - 10:50am Class time/details on ELMs	Seats (Total: 24) BPS 1243 BPS 1232 ONLINE	Discussion Discussion
0203	Tracy Tomlinson TuTh 9:30am - 10:45am M 11:00am - 11:50am Class time/details on ELMs	Seats (Total: 23) BPS 1243 BPS 1232 ONLINE	Discussion Discussion
0204	Tracy Tomlinson TuTh 9:30am - 10:45am M 1:00pm - 1:50pm Class time/details on ELMs	Seats (Total: 23) BPS 1243 BPS 1236 ONLINE	Discussion Discussion

0205	Tracy Tomlinson	Seats (Total: 23)	
	TuTh 9:30am - 10:45am	BPS 1243	
	M 2:00pm - 2:50pm	BPS 1232	Discussion
	Class time/details on ELMs	ONLINE	Discussion

PSYC206 Developmental Biopsychology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100.

Biological basis of behavioral development in relation to genetic, constitutional, anatomical, physiological, and environmental factors. Emphasis upon both phylogenetic and ontogenetic research findings in biological psychology.

For PSYC majors only.

0101	Steven Brauth	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	BPS 1236

PSYC210 Personality and Temperament: Developmental Origins, Brain Bases, and Clinical Implications

Credits: 3 Grading Method: Regular

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

What is known about what makes each of us unique? How do these differences contribute to enduring differences in health & wealth? We will review recent research in humans and non-humans aimed at understanding the psychological & biological mechanisms underlying stable individual differences in personality. We will discuss the phylogenetic and ontogenetic origins of temperament, measurement issues, fundamental dimensions of personality across the lifespan, neurobiological substrates of temperament/personality, mechanisms contributing to stability and change, implications for psychopathology, & broader implications for public/macroeconomic policy.

0101	Alexander Shackman	Seats (Total: 117)
	TuTh 11:00am - 12:15pm	BPS 1243

PSYC221 Social Psychology

Credits: 3 Grading Method: Regular, CORE: SB General Education: DSHS,
Pass-Fail, Audit DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior.

[Click here for course syllabus.](#)

0101	Dylan Selterman	Seats (Total: 150)	
	MW 2:00pm - 2:50pm	BRB 1101	
	F 2:00pm - 2:50pm	BRB 1101	Discussion
0201	Dylan Selterman	Seats (Total: 150)	
	MW 3:00pm - 3:50pm	BRB 1101	
	F 3:00pm - 3:50pm	BRB 1101	Discussion

PSYC289D Living the Good Life: The Psychology of Happiness

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, SCIS

What are the secrets to living a happy life? This course will introduce students to contemporary scientific approaches to studying age-old questions about how to get happy.

0101	Nazish Salahuddin	Seats (Total: 117)	
	TuTh 12:30pm - 1:45pm	JMZ 0220	

PSYC300 Research Methods in Psychology Laboratory

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Prerequisite: PSYC200. Restriction: Must be in Psychology program. Credit only granted for: PSYC300 or PSYC309R. Formerly: PSYC309R.

A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.

[Click here for course syllabus.](#)

0101	Charles Stangor	Seats (Total: 16)	
	MW 1:00pm - 1:50pm	BPS 1250	
	W 2:00pm - 3:50pm	BPS 1232	Discussion
0102	Charles Stangor	Seats (Total: 16)	
	MW 1:00pm - 1:50pm	BPS 1250	
	W 4:00pm - 5:50pm	BPS 1238	Discussion

0103	Charles Stangor MW 1:00pm - 1:50pm Th 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1228	Discussion
0104	Charles Stangor MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1238	Discussion
0106	Charles Stangor MW 1:00pm - 1:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1234	Discussion
0108	Charles Stangor MW 1:00pm - 1:50pm Th 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1228	Discussion
0201	Charles Stangor MW 3:00pm - 3:50pm M 8:00am - 9:50am	Seats (Total: 16) BPS 1250 BPS 1232	Discussion
0202	Charles Stangor MW 3:00pm - 3:50pm F 12:00pm - 1:50pm	Seats (Total: 16) BPS 1250 BPS 1232	Discussion
0203	Charles Stangor MW 3:00pm - 3:50pm F 8:00am - 9:50am	Seats (Total: 16) BPS 1250 BPS 1234	Discussion
0204	Charles Stangor MW 3:00pm - 3:50pm F 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1228	Discussion
0205	Charles Stangor MW 3:00pm - 3:50pm W 4:00pm - 5:50pm	Seats (Total: 16) BPS 1250 BPS 1234	Discussion
0206	Charles Stangor MW 3:00pm - 3:50pm Th 2:00pm - 3:50pm	Seats (Total: 16) BPS 1250 BPS 1234	Discussion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100. And BSCI170 and BSCI171; or BSCI105.

An introduction to the anatomical structures and physiological processes that determine behavior. After a study of the basic functioning of the nervous system, the course will examine the acquisition and processing of sensory information, the neural control of movement, and the biological bases of complex behaviors such as sleep, learning, memory, sex, language, and addiction.

Restricted to PSYC (major code 20010) students only.

[Click here for course syllabus.](#)

0101	David Yager	Seats (Total: 150)
	TuTh 12:30pm - 1:45pm	BPS 1250

PSYC303 Professional Development for Psychology Majors

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100; and must have completed 3 additional credits in PSYC courses. Or permission of BSOS-Psychology department. Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: PSYC309C or PSYC303. Formerly: PSYC309C.

An investigation of various career and graduate school opportunities available to psychology majors. Students will learn about a wide range of career fields, will learn how to utilize available resources to pursue career goals, and will take steps to advance their professional identity and development.

0101	Kevin McGann	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
0201	Kevin McGann	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PSYC309L Special Topics in Psychology; Personality and Social Psychology

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.

Contact department for information to register for this course.

PSYC309Z Special Topics in Psychology; Death, Dying and Grieving/Bereavement

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.

SG91	Rebecca Morse	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	BLD1 203
<i>Limit to CCJS students at Shady Grove.</i>		

PSYC319D Community Interventions: Service Learning

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Apply knowledge gained in PSYC318 to provide interventions to individuals dealing with a community problem. Critical analysis of interventions and related research. Ethical and cultural considerations in the provision of services are addressed.

0101	Elizabeth Sauber	Seats (Total: 12)
	MW 8:00am - 9:15am	BPS 1103

PSYC332 Psychology of Human Sexuality

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

Restricted to PSYC (major code 20010) students only.

Contact department for information to register for this course.

PSYC334 Psychology of Interpersonal Relationships

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

Restricted to PSYC (major code 20010) students only.

[Click here for course syllabus.](#)

0101	Dylan Selterman	Seats (Total: 150)
	TuTh 2:00pm - 3:15pm	BPS 1250

PSYC336 Psychology of Women

Credits: 3 Grading Method: Regular, , D General Education: DSHS
Pass-Fail, Audit

Prerequisite: PSYC100. Also offered as: WMST336. Credit only granted for: PSYC336 or WMST336.

A survey of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to PSYC (major code 20010) students only. Students will be expected to meet face-to-face during class time to complete small group work on 5-6 Fridays during the semester.

[Click here for course syllabus.](#)

0101	Nazish Salahuddin	Seats (Total: 110)
	MW 11:00am - 11:50am	BPS 1250
	F 11:00am - 11:50am	ONLINE

PSYC338A Special Topics in Study Abroad III; Applied Psychology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338D Special Topics in Study Abroad III; Developmental Disorders

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338L Special Topics in Study Abroad III; Psychology of Leadership

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC338P Special Topics in Study Abroad III; Positive Psychology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

PSYC341 Introduction to Memory and Cognition

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC200 and PSYC300.

An introduction to the basic models, methods of research, and findings in memory, problem-solving, and language and their applications.

Restricted to PSYC (major code 20010) students only.

Click here for course syllabus.

0101	Robert Slevc	Seats (Total: 115)
	TuTh 12:30pm - 1:45pm	BPS 1243

PSYC353 Adult Psychopathology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100. Restriction: Must be in Psychology program.

The nature, diagnosis, etiology, and treatment of mental disorders.

Restricted to PSYC (major code 20010) students only.

Click here for course syllabus.

0101	Charles Gelso	Seats (Total: 117)
	TuTh 2:00pm - 3:15pm	BPS 1243

PSYC354**Cross-Cultural Psychology**

Credits: 3 Grading Method: Regular, , D General Education: DSHS
Pass-Fail, Audit

Prerequisite: PSYC100.

Cultural components in theory and research in personality, social, and community psychology. Interplay of individual, ethnic, and cultural factors in psychosocial growth and well-being, cross-cultural and cross-ethnic communication, and counseling and psychotherapeutic interactions.

[Click here for course syllabus.](#)

0101	Susan Lee	Seats (Total: 150)
	MWF 11:00am - 11:50am	HJP 0226

PSYC355**Developmental Psychology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100.

Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.

Restricted to PSYC (major code 20010) students only.

0101	Elizabeth Redcay	Seats (Total: 150)
	TuTh 11:00am - 12:15pm	MMH 1400

PSYC361**Survey of Industrial and Organizational Psychology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100.

A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization); organizational psychology (motivation, leadership, job attitudes); and productivity in the work place (performance appraisal, absenteeism, turnover). The role that the larger environment plays in influencing work behaviors and work attitudes.

Restricted to PSYC (major code 20010) students only.

0101	Jennifer Wessel	Seats (Total: 52)
	TuTh 9:30am - 10:45am	BPS 1236

PSYC362 Introduction to Negotiation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC221 or PSYC361; or permission of BSOS-Psychology department. Restriction: Must be in Psychology program. Credit only granted for: PSYC309F or PSYC362. Formerly: PSYC309F. Additional information: Restricted to PSYC majors during preregistration.

Overview of the field of negotiation and the social-psychological and contextual factors that facilitate and inhibit successful negotiation agreements. Students will engage in a variety of negotiation exercises individually and as a team.

Students must pay a \$30.00 materials fee.

0101	Michele Gelfand	Seats (Total: 20)
	W 3:00pm - 5:30pm	PLS 1168

PSYC389 Experiential Learning

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Internship in psychology-related fields.

0101	Steven Young	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC401 Biological Bases of Behavior Laboratory

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC300; and (PSYC301 or BSCI353). Restriction: Permission of instructor; and must be in Psychology program; and must have earned a minimum of 85 credits.

A laboratory course to introduce students to some of the basic physiological and anatomical techniques of contemporary neuroscience. Exercises look at specific neurons or groups of neurons and how they control such simple behaviors as swimming, prey capture, and species recognition. The lab exercises use living invertebrates and cold-blooded vertebrates.

0101	David Yager	Seats (Total: 8)	
	MW 9:00am - 9:50am	BPS 1236	
	M 1:00pm - 5:00pm	BPS 0263	Lab
0201	David Yager	Seats (Total: 8)	
	MW 9:00am - 9:50am	BPS 1236	
	Tu 1:00pm - 5:00pm	BPS 0263	Lab
0301	David Yager	Seats (Total: 8)	
	MW 9:00am - 9:50am	BPS 1236	
	W 1:00pm - 5:00pm	BPS 0263	Lab

PSYC402 Neural Systems and Behavior

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PSYC301. Additional information: Priority is given to PSYC majors.

Research on the physiological basis of behavior, including considerations of sensory phenomenon, motor coordination, emotion, drives, and the neurological basis of memory.

Restricted to PSYC (major code 20010) students only.

0101	Steven Brauth	Seats (Total: 40)	
	TuTh 2:00pm - 3:15pm	BPS 1238	

PSYC404 Introduction to Behavioral Pharmacology

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

Contact department for information to register for this course.

PSYC406 Neuroethology

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: PSYC301. Restriction: Must be in Psychology program.

A merger between the disciplines of neuroscience and ethology (animal behavior) studies the behavioral functions of nervous systems using a comparative and evolutionary approach. Students will learn how the nervous system controls behavioral patterns in a variety of different organisms ranging from insects to mammals.

Restricted to PSYC (major code 20010) students only.

0101	Jens Herberholz	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BPS 1236

PSYC420 Experimental Psychology: Social Psychology Laboratory

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC221. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A laboratory course to provide a basic understanding of experimental method in social psychology and experience in conducting research on social processes.

Restricted to PSYC (major code 20010) students only.

[Click here for course syllabus.](#)

0101	Edward Lemay	Seats (Total: 20)
	MW 10:00am - 10:50am	BPS 1236
	F 12:00pm - 1:50pm	BPS 1228 Lab
0301	Ryan Curtis	Seats (Total: 20)
	MW 12:00pm - 12:50pm	BPS 1238
	F 8:00am - 9:50am	BPS 1228 Lab

PSYC425 Psychology and Law

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100, PSYC200, and PSYC300. Restriction: Must be in Psychology program. Credit only granted for: PSYC309K, PSYC325, or PSYC425. Formerly: PSYC309K.

An introduction to the intersection of psychology and the criminal justice system, known as the field of legal psychology. The material covered will span the course of the criminal justice process and examine each aspect from a psychological perspective beginning with profiling and moving on to eyewitness memory and judgements through perpetrator memories and interrogation techniques. These aspects will be evaluated with a research lens as well as an applied outlook.

0101	Tracy Tomlinson	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	BPS 1232

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

Restricted to PSYC (major code 20010) students only.

0101	Elissa Sarno	Seats (Total: 50)
	TuTh 12:30pm - 1:45pm	BPS 1236
0201	Derek Iwamoto	Seats (Total: 50)
	MW 2:00pm - 3:15pm	BPS 1236

PSYC433 **Basic Helping Skills: Research and Practice**

Credits: 4 Grading Method: Regular

Prerequisite: PSYC300; and (PSYC434, PSYC334, PSYC353, PSYC435, PSYC436, or PSYC432).

Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

Theories and research regarding effective helping skills. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Because of the participatory nature of this class, attendance normally will be included in the computation of grades.

Restricted to PSYC (major code 20010) students only.

[Click here for course syllabus.](#)

0101	Jonathan Mohr	Seats (Total: 13)
	M 2:00pm - 3:50pm	TWS 0310
	W 9:00am - 10:50am	BPS 1228 Lab
0102	Jonathan Mohr	Seats (Total: 13)
	M 2:00pm - 3:50pm	TWS 0310
	W 11:00am - 12:50pm	BPS 1228 Lab

0103	Jonathan Mohr M 2:00pm - 3:50pm W 1:00pm - 2:50pm	Seats (Total: 13) TWS 0310 BPS 1228 Lab
0104	Jonathan Mohr M 2:00pm - 3:50pm W 3:00pm - 4:50pm	Seats (Total: 13) TWS 0310 BPS 1228 Lab
0105	Jonathan Mohr M 2:00pm - 3:50pm W 11:00am - 12:50pm	Seats (Total: 13) TWS 0310 BPS 1234 Lab
0106	Jonathan Mohr M 2:00pm - 3:50pm W 1:00pm - 2:50pm	Seats (Total: 13) TWS 0310 BPS 1234 Lab
0107	Jonathan Mohr M 2:00pm - 3:50pm F 8:00am - 9:50am	Seats (Total: 13) TWS 0310 BPS 1232 Lab
0108	Jonathan Mohr M 2:00pm - 3:50pm F 10:00am - 11:50am	Seats (Total: 13) TWS 0310 BPS 1234 Lab

PSYC435 Theories of Personality and Psychotherapy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC200.

Major theories of personality and research methods and findings relevant to those theories.

Contact department for information to register for this course.

PSYC436 Introduction to Clinical Psychology: From Science to Practice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC300.

Critical analysis of clinical psychology, with particular emphasis on current developments and trends.

Restricted to PSYC (major code 20010) students only.

[Click here for course syllabus.](#)

0101	Mary Byrne	Seats (Total: 75)
	TuTh 11:00am - 12:15pm	JMZ 0220

PSYC437 The Assessment and Treatment of Addictive Behaviors

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC100; and 9 credits in PSYC courses. Credit only granted for: PSYC309E (taken in the Winter Term) or PSYC437. Formerly: PSYC309E.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

Restricted to PSYC (major code 20010) students only.

0101	Laura MacPherson	Seats (Total: 40)
	TuTh 2:00pm - 3:15pm	BPS 0283

PSYC442 Psychology of Language

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC300 and PSYC341. Restriction: Must be in Psychology program.

Introductory survey of the psychology of language, focusing on the cognitive processes that enable us to produce and understand language. Topics include speech perception, speech production, syntactic processing, language development, language disorders, and the brain bases of language.

Restricted to PSYC (major code 20010) students only.

Contact department for information to register for this course.

PSYC444 Cyberpsychology: The Psychology of Human/Computer Interactions

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC200. Credit only granted for: PSYC309E or PSYC444. Formerly: PSYC309E.

Explores traditional psychological processes in the rapidly changing world of computer and internet technologies. Students will address how the use of computers impacts many of the major topics in psychology.

Restricted to PSYC (major code 20010) students only.

0101	Kent Norman	Seats (Total: 36)
	MWF 11:00am - 11:50am	PLS 1129

PSYC456 Research Methods in Developmental Psychology Laboratory

(Perm req)

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: PSYC300; and permission of BSOS-Psychology department. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.

A presentation of major research designs used in developmental psychology and of the methodology used in developmental research, such as observational research, program evaluation, and laboratory experimentation.

0101	Jude Cassidy	Seats (Total: 12)
	TuTh 12:30pm - 1:45pm	BPS 1234
	Contact instructor or department for details.	

PSYC468H Field Experience and Special Assignments in Honors

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An individual experience arranged by the honors student and his or her supervisor. A proposal submitted to the honors faculty in the semester preceding registration for the course should state the activities anticipated and the method of evaluation.

0101	Jack Blanchard	Seats (Total: 20)
	Tu 4:00pm - 4:50pm	BPS 1103

PSYC469H Honors Thesis Proposal Preparation

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of honors thesis proposal by preliminary research and literature review. Presentation of formal proposal to the thesis committee.

Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC478 Independent Study in Psychology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Information about independent study may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC479 Special Research Problems in Psychology

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Information about research credit may be obtained in BPS 1107. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

Contact department for information to register for this course.

PSYC489G Advanced Special Topics in Psychology; Hormones and Behavior

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Formerly PSYC309Z. Prerequisite: PSYC301 or equivalent. For students who have not had PSYC301, written permission of the instructor and department is required. Restricted to PSYC (major code 20010) students only. This lecture-based course is a study of the interactions among hormones, the brain, and behavior. Studying hormones and behavior is exciting, interdisciplinary, and involves understanding a wide range of phenomena - from single cells to complex behavior.

0101	Erica Glasper Andrews	Seats (Total: 30)
	TuTh 9:30am - 10:45am	BPS 0283

PSYC489H Advanced Special Topics in Psychology; Motivated Social Cognition

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC300. Restricted to students in the psychology honors program. Our beliefs, judgments and impression have a motivational basis. Sometimes our motivation is to reach the Truth, at other times the primary motivation is to fulfill our wishes of some sort. Recent research in social cognition examined the ways in which our motivation affect our beliefs and how this in turn affects our behavior. This course will examine major theories and research findings in the area to inform students about this major aspect of human psychology.

0101	A Kruglanski	Seats (Total: 20)
	W 3:00pm - 5:30pm	PLS 1146

PSYC489N Advanced Special Topics in Psychology; Evolution of the Forebrain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC301. For students who have not had PSYC301, written permission of the instructor is required. A comparative approach to the organization and functions of important forebrain systems focusing on the question of how new neural systems have evolved in vertebrates. Topics include the organization and evolution of the cerebral cortex (and its counterparts in non-mammals), basal ganglia and limbic system. We address theories of how these neural structures have been modified from the ancestral condition or have arisen de novo.

0101	Steven Brauth	Seats (Total: 25)
	M 3:00pm - 5:30pm	BPS 1232

PSYC489P Advanced Special Topics in Psychology; Doing the Right Thing: Integrity and Ethics in Academics and Research

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC300.

0101	Robert Dooling	Seats (Total: 20)
	TuTh 11:00am - 12:15pm	PHY 4222

PSYC489Q Advanced Special Topics in Psychology; Social Media and Social Computing

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Treatment of a specialized topic in psychology.

Prerequisite: PSYC300. Social Media and social computing is the intersection of psychology and computer science. This course will survey social media sites (e.g., Facebook, Twitter, and SnapChat), the psychological issues and behaviors that manifest themselves on the media (e.g., anonymity, dissociation, social equalization, and cyber-bullying), and the analysis of social media data.

0101	Kent Norman	Seats (Total: 20)
	MW 2:00pm - 3:15pm	PLS 1172

PSYC499H Honors Thesis Research

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

In addition to the department and instructor, the director of the honors program may be contacted to obtain a section number. Prerequisite: permission of the thesis advisor. Permission may be obtained in BPS 1147. Restricted to undergraduate PSYC majors only.

Contact department for information to register for this course.

PSYC602

Quantitative Methods II

(Perm req)

Credits: 4

Grading Method: Regular,
Audit

Prerequisite: PSYC601.

A continuation of PSYC 601. Topics include experimental design, analysis of variance, analysis of covariance, multiple regression, and general linear models.

For all non-psychology graduate students, written permission of the instructor is required.

0101	Paul Hanges	Seats (Total: 20)
	TuTh 9:00am - 11:00am	BPS 1232
	Th 5:00pm - 7:00pm	PLS 1129 Lab

PSYC604

Fundamentals of Social Psychology

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: PSYC604 or PSYC640. Formerly: PSYC640.

A survey of classic and contemporary theories, research and methods in social psychology.

0101	Charles Stangor	Seats (Total: 20)
	W 4:00pm - 6:30pm	BPS 1232

PSYC607

Advanced Topics in Human-Learning and Cognitive Psychology

Credits: 3

Grading Method: Regular,
Audit

Credit only granted for: PSYC607 or PSYC671. Formerly: PSYC671.

A systemic review of major topic areas in the field of human learning and cognition, with emphases on information processes, mental representations, memory, reasoning, problem solving, and language.

0101	Michael Dougherty	Seats (Total: 18)
	M 9:00am - 11:30am	BPS 1140A

PSYC611 Advanced Developmental Psychology

Credits: 3 Grading Method: Regular,
Audit

Systematic exploration of contemporary and classic theories of development focusing on the assumptions they make and research they generate.

0101	Jonathan Beier	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	BPS 1140A

PSYC623 Child Psychopathology

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).

Examines the scientific and clinical literature relevant to normal and pathological behavior in children and adolescents. Issues in developmental psychopathology and consideration of processes initiated in childhood which manifest as pathology in adulthood are also considered.

PCC1	Erin Lewis-Morrarty	Seats (Total: 40)
	Meets February 29, 2016 - May 20, 2016	
	Th 6:00pm - 9:20pm	BPS 0283
	<i>Restricted to students in the Clinical Psychological Science Program.</i>	

PSYC625 Clinical Assessment: Psychometric Principles, Testing and Behavior

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC625 or PSYC721. Formerly: PSYC721.

An examination of fundamental principles of psychological assessment; application of these principles to the development of evidence-based assessments of clinical conditions and associated behaviors; and application of evidence-based assessments to the evaluation and understanding of clinical conditions evaluated and treated in therapeutic settings.

0101	Andres De Los Reyes	Seats (Total: 10)
	W 9:00am - 11:30am	BPS 1238

PSYC629**Clinical Laboratory**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

0101	Abigail Romirowsky	Seats (Total: 10)
Contact instructor or department for details.		
0201	Aditi Vijay	Seats (Total: 10)
Contact instructor or department for details.		
0301	Mary Byrne	Seats (Total: 10)
Contact instructor or department for details.		

PSYC630**Behavioral and Cognitive Behavioral Intervention for Adults**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: PSYC680. Restriction: Permission of instructor. Credit only granted for: PSYC630 or PSYC728. Formerly: PSYC728.

Introduces students to the process of therapy with particular focus on behavioral focus on behavioral and cognitive behavioral internentions. Syllabus focuses on theory, research, client diversity, ehtics, and practical aspects of conducting therapy.

PCC1	Aditi Vijay	Seats (Total: 40)
Meets February 29, 2016 - May 20, 2016		
Tu 6:00pm - 9:20pm		BPS 0283
<i>Restricted to students in the Clinical Psychology Professional Program.</i>		

PSYC632**Behavioral and Cognitive Behavioral Intervention for Children and Adolescents**

Credits: 3

Grading Method: Regular,
Audit

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Formerly: PSYC789A.

Introduces students to the process of therapy with particular focus on behavioral and cognitive behavioral interventions in children and adolescents. Syllabus focuses on theory, research, client diversity, ethics and practical aspects of conducting therapy.

0101	Julia Felton	Seats (Total: 15)
	Tu 10:00am - 12:50pm	JMZ 3122

PSYC638 Externship in Professional Psychology; Externship in Professional Psychology

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

For PSYC majors only.

0101	Derek Iwamoto	Seats (Total: 20)
	Contact instructor or department for details.	
0201	Andrea Chronis-Tuscano	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC639 Internship in Professional Psychology; Internship in Professional Psychology

Credits: 1 Grading Method: Sat-Fail

This seminar combines involvement with a program approved appointment a an intern in a mental setting with a supervisory review of the training experience.

For PSYC majors only.

0101	Andrea Chronis-Tuscano	Seats (Total: 20)
	Contact instructor or department for details.	

PSYC663 Understanding Torture and Trauma I

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in the Graduate Certificate of Professional Studies in Treating Survivors of Violence, Torture, and Trauma: Theoretical Foundations and Mental Health; or permission of instructor.

The focus of this course is to provide students with an introduction to the psychology of torture survivors. Students will discuss theoretical approaches to understanding of torture, think critically about the context of torture, and understand the psychological, social/familial, spiritual, physical, community, and political implications of torture. Interventions for working with torture survivors will be introduced.

PLV1	Sheetal Patel	Seats (Total: 25)
Meets February 29, 2016 - May 20, 2016		
Class time/details on ELMs		ONLINE
<i>Restricted to Students in the VTT Program.</i>		

PSYC690 Research in Counseling Psychology I

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor. Credit only granted for: PSYC690 or PSYC718. Formerly: PSYC718.

Critical analysis of strategies methodological, conceptual, and content trends.

0101	Jonathan Mohr	Seats (Total: 20)
	M 9:00am - 11:50am	BPS 1234

PSYC737 Research Methods in Industrial/Organizational Psychology

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: PSYC603; or permission of instructor.

Philosophy, theory, and method issues underlying I/O psychology. History and the effectiveness of different methods for answering different questions is explored. Reliability and validity are emphasized.

0101	Paul Hanges	Seats (Total: 20)
	Tu 1:00pm - 3:30pm	BPS 1103

PSYC788B Special Research Problems; Ethics in Scientific Research

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Supervised research on problems selected from the areas of experimental, industrial, social, quantitative, or mental health psychology.

Also offered as BIOL600, CHEM648E, and NACS600. Credit granted BIOL600, CHEM648E, NACS600, or PSYC788B.

0101	Robert Dooling	Seats (Total: 20)
	W 3:00pm - 5:00pm	BPS 1208

PSYC789**Special Research Problems**

Credits: 1-4 Grading Method: Regular,
Audit

Contact department for information to register for this course.

PSYC789B**Special Research Problems; Hormones and Behavior**

Credits: 3 Grading Method: Regular,
Audit

0101	Erica Glasper Andrews	Seats (Total: 10)
Contact instructor or department for details.		

PSYC799**Master's Thesis Research**

Credits: 1-6 Grading Method: Regular

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PSYC819E**Seminar in Personality and Development; ADV ATTACHMENT THEORY**

Credits: 3 Grading Method: Regular,
Audit

An advanced seminar covering specialized topics.

0101	Jude Cassidy	Seats (Total: 10)
	W 9:30am - 12:00pm	BPS 1103

PSYC888A**Research Methods in Psychology; Reserach Methods in Psychology: Development Seminar**

Credits: 1-3 Grading Method: Regular,
Audit

0101	Tracy Riggins	Seats (Total: 15)
Contact instructor or department for details.		

PSYC888B**Research Methods in Psychology; Cross Culturism**

Credits: 1-3 Grading Method: Regular,
Audit

0101	Michele Gelfand	Seats (Total: 10)
Contact instructor or department for details.		

PSYC888E

Credits: 1-3

0101	Paul Hanges	Seats (Total: 10)
	Contact instructor or department for details.	

PSYC889

Credits: 1-3

0201	Robert Slevc	Seats (Total: 10)
	Tu 2:00pm - 2:50pm	BPS 1234

PSYC898

Credits: 1-8

Contact department for information to register for this course.

PSYC899

(Perm req)

Credits: 6

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

Contact department for information to register for this course.

PUAF

Public Policy

Spring 2016

PUAF201

Credits: 3

CORE: IE

General Education: DSHS,
DSSP, SCIS

This course is designed to provide undergraduate students an introduction to leadership theory and a chance to practice a core set of practical skills relevant to transformational and collaborative leadership.

0101	Ricco Hall	Seats (Total: 45)
	Tu 6:00pm - 8:30pm	TYD 1101

PUAF215

Innovation and Social Change: Creating Change for Good

(Perm req)

Credits: 3

Grading Method: Regular

General Education: DSSP

A team-based, highly interactive and dynamic course that provides an opportunity for students to generate solutions to a wide range of problems facing many communities today. Students in the iGIVE Program will deepen their understanding of entrepreneurship and innovation practices by creating and implementing projects or ventures that address an issue of their choosing while learning topics such as communications, project management, teamwork, leadership, fundraising, project sustainability and next steps in social change.

Restricted to member of the iGive Living Learning Program.

0101	Susannah Washburn	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	EAS 0102
<i>Restricted to students in the iGive Carillon Community program.</i>		

PUAF288P

Special Topics in Public Policy; Introduction to Public Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An exploration of the interdisciplinary field of Public Policy which provides a broad understanding of the policy making process, and the tools for analyzing and managing successful policies.

There is much more to public policy than "who wins" and "who loses". This course will provide a broad understanding of the policy making process, and the tools for analyzing and managing successful policies and briefly considers various policy arenas, including education policy, health policy, environment and energy policy, criminal justice policy, and economic/fiscal policy.

0101	Philip Joyce	Seats (Total: 30)
	TuTh 12:00pm - 1:15pm	VMH 1207

PUAF301

Sustainability

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as: AGNR301. Credit only granted for: AGNR301 or PUAF301.

Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?

0101	Daria Karetnikov	Seats (Total: 100)
	MW 3:30pm - 4:45pm	CHM 1402

PUAF302 Leadership: Philosophy, Policy and Praxis

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Leadership as a search for meaning, identity and purpose are explored. Also introduces major philosophical traditions, from the ancient world to the modern one, and encourages students to ground their leadership interests and aspirations in a disciplined process of self-reflection, critical thinking and inquiry.

0101	Nina Harris	Seats (Total: 30)
	W 4:15pm - 6:45pm	TLF 1126

PUAF311 Women in Leadership

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: PUAF311 or PUAF359W. Formerly: PUAF359W.

Examines the role of women in the leadership process including the participation of women as activists, voters, advocates, public leaders and as agents of change through various avenues including, among others, public service (elected and appointed), the media, community service, political organizations, and the nonprofit sector.

0101	Anne Kaiser	Seats (Total: 25)
	Tu 5:00pm - 7:30pm	TLF 1126

PUAF313 Advocacy in the American Political System

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: PUAF313 or PUAF359C. Formerly: PUAF359C.

Introduces students to the creation of law through the legislative process with a special focus on the Maryland General Assembly.

0101	Gerard Evans	Seats (Total: 75)
	M 1:30pm - 4:00pm	SKN 0200

PUAF349 Internship in Political Institutions: State and Local

(Perm req) Credits: 3-6 Grading Method: Regular

Offers students supervised internship placements in state and local political or public policy organizations.

0101	Eric Luedtke	Seats (Total: 30)
Contact instructor or department for details.		

PUAF386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular

Prerequisite: Permission of PUAF-School of Public Policy. Repeatable to 12 credits if content differs.

0101	Nina Harris	Seats (Total: 15)
Contact instructor or department for details.		

PUAF388D Special Topics in Public Policy; Innovation and Social Change: Do Good Now

Credits: 3 Grading Method: Regular, General Education: DSSP,
Pass-Fail, Audit SCIS

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0301	Sally Rudney	Seats (Total: 35)
	Tu 2:00pm - 4:30pm	SQH 1101

PUAF388G Special Topics in Public Policy; Global Perspectives on Leading and Investing in Social Change

Credits: 3 Grading Method: Regular

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Poverty, climate change, gender equity, human trafficking, refugee and humanitarian emergencies, public health crises... how do we tackle the world's most pressing issues? Non-governmental organizations (NGOs) are working across borders and in the most desperate circumstances to alleviate suffering and solve problems. This course will discuss the role of NGOs both here and abroad while analyzing the trends and issues related to giving and fundraising for international issues.

0101	Angela Bies	Seats (Total: 30)
	Tu 11:00am - 1:30pm	TLF 1126

PUAF388K Special Topics in Public Policy; Global Leadership in Public Policy

Credits: 3 Grading Method: Regular

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

The course focuses on the big questions of how leaders lead how they translate ideas into policy, how they produce action, and how we can assess the effectiveness of their work. We will focus especially on how each of us can play our own role as leaders in this process. The course will use a wide variety of policy puzzles, from the safety of the food we eat to the battle on climate change, to understand the big issues of public policy. Students will emerge from the course with a keen sense of policy leadership and with practical skills to make them better leaders.

0101	Donald Kettl	Seats (Total: 30)
	M 2:00pm - 4:30pm	TLF 1126

PUAF388O Special Topics in Public Policy; China: China's Philanthropic and Social Sector - Policy and Management Perspectives

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

Contact department for information to register for this course.

PUAF388T Special Topics in Public Policy; Undergraduate Teaching Assistant Directed Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Advanced special topics focusing on an interdisciplinary topic related to Public Policy.

0101	Nina Harris	Seats (Total: 10)
	Contact instructor or department for details.	

PUAF396 Fellowship Program in Political Leadership

(Perm req)

Credits: 2-6 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Permission of PUAF-School of Public Policy. Restriction: Must be enrolled in the full-time fellowship program.

Individual instruction course.

0101	Nina Harris	Seats (Total: 10)
	Contact instructor or department for details.	

PUAF610 Quantitative Aspects of Public Policy

Credits: 3 Grading Method: Regular,
Audit

Introduces statistical methods needed for evaluating and choosing among policy options. Topics include probability; decision-making under uncertainty; the organization, interpretation, and visual display of complex data; prediction and inferences about causality; hypothesis testing; and linear and multiple regression. Develops analytical skills and the ability to apply theory to complex, real-world problems.

0101	Seth Weissman	Seats (Total: 25)	
	Tu 7:00pm - 9:30pm	VMH 1207	
	M 7:00pm - 9:30pm	Location: TBA	Discussion

Study of a series of problems and the development of quantitative techniques to describe or evaluate the problem. The organization and interpretation of complex data and its use for prediction and inference about casual effects. The definition of objectives, trade-offs among objectives, and allocation of resources to meet objectives. Sensitivity of outcomes to changing conditions.

0101	Seth Weissman	Seats (Total: 20)
	W 7:00pm - 9:30pm	VMH 1203
	Tu 7:00pm - 9:30pm	Location: TBA Discussion

Examination of politics as a process for allocating scarce resources among claimants for public benefits. Comparison of the allocative model of politics with other distributive processes, such as markets. Comparison of the model with behavior of different political institutions, such as Congress and the presidency. Study of politics as a process with distinctive concepts of rationality. The translation of voter and interest group preferences into public choices. The impact of political decisions on competing constituencies.

0101	Miguel Gonzalez-Marcos	Seats (Total: 29)
	W 4:15pm - 6:45pm	Location: TBA

PUAF640 Microeconomic and Policy Analysis

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).

0101	Michael Busse	Seats (Total: 29)
	M 4:00pm - 6:40pm	Location: TBA
	F 9:15am - 11:45am	PKT 1221 Discussion

PUAF641 Macroeconomics and Policy Analysis

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.

0101	Phillip Swagel	Seats (Total: 29)
	Tu 9:15am - 11:45am	VMH 1203
	F 9:15am - 11:45am	VMH 1203 Discussion

PUAF650 Moral Dimensions of Public Policy

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Explores the moral issues involved in public policy questions; the limits and usefulness of decision-making tools; problems of choosing, justifying and using criteria to judge a program's success and suitability; ethical issues involving the welfare state and income distribution; and possible obligations beyond one's political community and generation.

0101	Thomas Hilde	Seats (Total: 22)
	Th 1:30pm - 4:00pm	VMH 1203
0301	Thomas Hilde	Seats (Total: 22)
	W 9:15am - 11:45am	VMH 1207

PUAF670 Public Budgeting & Financial Management

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Covers how governments raise, spend, borrow, and manage public funds. Reviews federal, state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.

0101	Travis St Clair	Seats (Total: 25)
	M 1:30pm - 4:00pm	VMH 1207
	F 1:30pm - 4:00pm	PKT 1221 Discussion
0301	Philip Joyce	Seats (Total: 25)
	Tu 4:15pm - 6:45pm	VMH 1207
	F 1:30pm - 4:00pm	PKT 1221 Discussion

PUAF671 Public Sector Finance

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

The goal of this course is to provide a useful overview of basic public sector financial management principles in a simulated managerial situation to midcareer students currently working in government and nonprofit organizations.

Contact department for information to register for this course.

PUAF688C Topics in Public Policy; Cyberspace: Legal and Policy Implications

Credits: 3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

0101	William Nolte	Seats (Total: 20)
	Tu 4:15pm - 6:45pm	VMH 1107

PUAF688F Topics in Public Policy; State, Local & Non-Profit Financial Management

Credits: 3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

Restricted to PUAF majors or permission of instructor.

0101	Travis St Clair	Seats (Total: 20)
	Tu 4:15pm - 6:45pm	VMH 1203

PUAF688O Topics in Public Policy; China: China's Philanthropic and Social Sector - Policy and Management Perspectives

Credits: 3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PUAF688V Topics in Public Policy; Rebuilding Inner Cities

Credits: 3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

For PUAF majors or permission of instructor.

0101	Peter Reuter	Seats (Total: 20)
	M 9:15am - 11:45am	Location: TBA

PUAF688X Topics in Public Policy; Human Dignity

Credits: 1-3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

For PUA major or permission of instructor.

0101	Chloe Schwenke	Seats (Total: 20)
	W 4:15pm - 6:45pm	Location: TBA

PUAF688Z Topics in Public Policy; Climate Policy Implementatin Seminar

Credits: 3 Grading Method: Regular,
 Audit

Special topics in Public Policy.

0101	Anand Patwardhan	Seats (Total: 20)
	Th 4:15pm - 6:45pm	VMH 1101

PUAF689D Public Policy Topics; Social Entrepreneurship

Credits: 3 Grading Method: Regular

Special Topics in Public Policy.

CA01	James Sanders	Seats (Total: 20)
	Meets March 26, 2016 - May 14, 2016	
	Sa 2:00pm - 6:30pm	Location: TBA
	Class time/details on ELMs	ONLINE

PUAF689E Public Policy Topics; Program Evaluation and Cost-Benefit Analysis

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in Public Policy.

Course will also hold joint sessions with Russian students on three Tuesday mornings in February from 8:00-9:00am.

0101	Peter Germanis, Douglas Call, Douglas Besharov	Seats (Total: 45)
	Th 7:00pm - 10:00pm	VMH 1212
	<i>For students in Social, Health, and Education specializations.</i>	

0201	Peter Germanis, Douglas Call, Douglas Besharov	Seats (Total: 45)
	Th 7:00pm - 10:00pm	VMH 1212
	<i>For students in International Development specializations.</i>	
0301	Douglas Call, Peter Germanis, Douglas Besharov	Seats (Total: 25)
	Th 7:00pm - 10:00pm	VMH 1212
	<i>For students not in the Social, Health, Education, or International Development specializations.</i>	

PUAF689F Public Policy Topics; Current Issues in Federal Acquisition

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in Public Policy.

Also offered as BUSI758P and ENSE698F. Credit granted for PUAF689F, BUSI758P or ENSE698F.

0101	Jacques Gansler	Seats (Total: 20)
	M 4:15pm - 6:45pm	VMH 1203

PUAF689N Public Policy Topics; U.S./China Social Policy

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in Public Policy.

Contact department for information to register for this course.

PUAF689V Public Policy Topics; Forecasting & Analyzing Political Violence

Credits: 3 Grading Method: Regular,
 Audit

Special Topics in Public Policy.

0101	Kevin Jones	Seats (Total: 25)
	W 1:30pm - 4:00pm	VMH 1207

PUAF689X Public Policy Topics; Performance Management

0101	Philip Joyce, J Mihm	Seats (Total: 32)
	M 7:00pm - 9:00pm	Location: TBA

0101	Robert Grimm, Robert Sheehan	Seats (Total: 20)
	W 7:00pm - 9:30pm	Location: TBA

0101	David Crocker	Seats (Total: 20)
	Th 9:15am - 11:45am	Location: TBA

PUAF698N Selected Topics in Public Affairs; Intelligence and National Security

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF698P Selected Topics in Public Affairs; Information Policy & Technology

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

For PUAJ Majors or permission of instructor.

Contact department for information to register for this course.

PUAF698R Selected Topics in Public Affairs: Developmental Challenges

Credits: 3 Grading Method: Regular,
Audit

Special topics that arise in public policy.

0101	Mario Picon	Seats (Total: 25)
	Tu 7:00pm - 9:30pm	VMH 1203

PUAF698T Selected Topics in Public Affairs; Managing Across Sectors

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699G Selected Topics Public Policy; Leadership in Groups and Organization

Credits: 3 Grading Method: Regular,
Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699L Selected Topics Public Policy; Leading and Motivating People

Credits: 3 Grading Method: Regular, Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699M Selected Topics Public Policy; Acquisitions in National Security

Credits: 3 Grading Method: Regular,
 Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699O Selected Topics Public Policy; 21st Century Policy Challenges

Credits: 3 Grading Method: Regular,
 Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699R Selected Topics Public Policy; Critical Thinking for Analysts

Credits: 3 Grading Method: Regular,
 Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699T Selected Topics Public Policy; Terrorism Analysis: Tools & Practices

Credits: 3 Grading Method: Regular,
 Audit

Special topics that arise in public policy.

Contact department for information to register for this course.

PUAF699Y Selected Topics Public Policy; Globalization, Business and Development

Credits: 3 Grading Method: Regular,
 Audit

Special topics that arise in public policy.

PUAF major or permission of instructor.

0101	William Reinsch, Susan Schwab	Seats (Total: 20)
	Th 9:15am - 11:45am	VMH 1107

PUAF699Z Selected Topics Public Policy; Energy Policy

PUAF720 International Security Policy

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUA-F-School of Public Policy; or permission of PUA-F-School of Public Policy.

Reviews the principal features of international security as currently practiced. Traces the evolution of contemporary policy beginning with the initiation of nuclear weapons programs during World War II. Particular emphasis is given to experience of the United States and Russia, since the historical interaction between these two countries has disproportionately affected the international security conditions that all other countries now experience.

0101	Nancy Gallagher	Seats (Total: 20)
	Tu 1:30pm - 4:00pm	Location: TBA

PUAF724 Problems of Global Security

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy. Formerly: PUAF698W.

Explores the international security implications of globalization, presenting evidence indicating that altered circumstances will eventually induce a major redesign of prevailing security arrangements. Includes three segments: 1) a review of the principal problems that have been the focus of established security policy and would be the context for any major adjustment of policy; 2) an assessment of relationships with the major countries where traditional problems are most acutely present; and 3) a review of the organizing principles that can be expected to emerge in the new situation.

Contact department for information to register for this course.

PUAF732 Policy and Politics of Education Reform

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Examines education reform in its historical, fiscal, cultural, and legal contexts, and the changing relationship between education and economic opportunity. Focuses on institutional and normative issues, including national standards, public school choice, charter schools, vouchers and funding equity.

0101	Gail Sunderman	Seats (Total: 24)
	W 4:15pm - 7:00pm	EDU 3236

Foundations of Social Policy

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy.

Provides an overview of government's role in social policy and the history of the development of federal and state policies with respect to welfare, aging, education, and housing. Analyzes current federal institutions and legislation in the same policy areas and the demographic history of the United States. Develops skills in analytic writing and presentation of descriptive data.

0101	Mark Nadel	Seats (Total: 20)
	Th 1:30pm - 4:00pm	VMH 1107

PUAF740

Public Policy and the Environment

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Surveys of major federal environmental legislation; the development and implementation of laws, and alternative ways of thinking about the relationship between humans and the environment.

0101	Robert Nelson	Seats (Total: 18)
	W 4:15pm - 6:45pm	VMH 1107
0201	Robert Nelson	Seats (Total: 18)
	Th 9:15am - 11:45am	VMH 1101

PUAF745

Human Health and Environmental Policy

Credits: 3 Grading Method: Regular,
Audit

Reviews the major human physiological systems and their integrated toxicological functions; considers key bodily defenses; and discusses classic, emerging, and ambiguous risks; in all ecological context. Applies to scientific controversy, the methods of policy formation, such as risk analysis, social-cost analysis, "outcomes" analysis, and decision analysis, all in political-economic context.

0101	Robert Sprinkle	Seats (Total: 25)
	W 1:30pm - 4:00pm	VMH 1203

PUAF752

Managing Differences:Resolving Conflict and Negotiating Agreements

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

Contact department for information to register for this course.

PUAF753 Advanced Negotiations

Credits: 3 Grading Method: Regular, Audit

Prerequisite: PUA752. Credit only granted for: PUA698C or PUA753. Formerly: PUA698C.

Deepens the student's negotiation and leadership skills for managing differences between individuals and groups. Cover conflict, escalation, dealing with intractable conflicts, sustaining agreements in inter-group conflicts, and the effects of trauma on negotiations.

Contact department for information to register for this course.

PUAF780 The American Foreign Policy-Making Process

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUA-F-School of Public Policy; or permission of PUA-F-School of Public Policy.

Survey and analysis of the governmental institutions and processes which shape U.S. global engagement on national security and international economic issues. Particular emphasis is given to executive-congressional relations and the broader domestic roots of foreign policy.

0201	Jonas Siegel	Seats (Total: 20)
	M 1:30pm - 4:00pm	VMH 1107

PUAF781 International Economic Policy

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in a major in PUAF-School of Public Policy; or permission of PUAF-School of Public Policy.

Issues and choices facing the United States in today's global economy. Primary, but not exclusive, emphasis is given to "competitive interdependence" among advanced industrial societies.

0101	Phillip Swagel	Seats (Total: 28)	
	W 9:15am - 11:45am	VMH 1203	
	M 4:15pm - 6:45pm	VMH 1207	Discussion

PUAF782 International Development Economics

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in PUAf-School of Public Policy; or permission of PUAf-School of Public Policy. Credit only granted for: PUAf698U or PUAf782. Formerly: PUAf698U.

Examines key current economic and policy issues for developing and transition economies. Topics include inflation stabilization, fiscal policy, selected trade issues, dealing with international capital flows, the role of multilateral organizations, such as the International Monetary Fund and the World Bank, and issues relating to saving, investment and growth.

0101	Michael Busse	Seats (Total: 42)	
	M 7:00pm - 9:30pm	VMH 1207	

PUAF784 Disease, Disaster, and Development

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in PUAf-School of Public Policy; or permission of PUAf-School of Public Policy. Credit only granted for: PUAf699D or PUAf784. Formerly: PUAf699D.

Studies development, the process by which needy people in fragile societies become self-sufficient people in resilient societies, in relation to disease and disaster, with particular attention to the developed world's response.

0101	Robert Sprinkle	Seats (Total: 20)	
	Th 1:30pm - 4:00pm	VMH 1101	

PUAF790 Project Course

Credits: 3 Grading Method: Regular,
 Audit

Restriction: Must be in a major in PUAf-School of Public Policy; or permission of PUAf-School of Public Policy.

Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.

For students taking evaluation-based IDEV project course.

0101	Toby Egan W 1:30pm - 4:00pm <i>For students in Management & Leadership and Public Sector Financial Management specializations.</i>	Seats (Total: 15) VMH 1107
0111	Susannah Washburn W 1:30pm - 4:00pm <i>For students in Non-Profit Management specialization.</i>	Seats (Total: 15) VMH 1207
0201	Douglas Besharov, Douglas Call Th 4:15pm - 6:45pm Contact instructor or department for details. <i>For students in one of the Social Policy specializations with a federal-oriented project.</i>	Seats (Total: 16) Location: TBA
0211	Douglas Besharov, Douglas Call Th 4:15pm - 6:45pm Contact instructor or department for details. <i>For students in one of the Social Policy specializations with a non-federal-oriented project.</i>	Seats (Total: 11) Location: TBA
0301	Robert Nelson Tu 9:15am - 11:45am <i>For students in Environmental or Energy specializations.</i>	Seats (Total: 20) VMH 1107
0401	I M Mac Destler, Jaganath Sankaran M 9:15am - 11:45am Contact instructor or department for details. <i>For students in ISEP specialization.</i>	Seats (Total: 12) VMH 1207
0411	I M Mac Destler, Jaganath Sankaran M 9:15am - 11:45am <i>For students in ISEP specialization.</i>	Seats (Total: 16) VMH 1207
0501	Madiha Afzal M 9:15am - 11:45am <i>For students taking traditional IDEV project course.</i>	Seats (Total: 22) VMH 1107

0511	Douglas Call, Douglas Besharov	Seats (Total: 10)
	Th 4:15pm - 6:45pm	Location: TBA
	Contact instructor or department for details.	
	<i>For students not in one of the Social Policy specializations.</i>	

PUAF798A Readings in Public Policy

Credits: 1-3 Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798B Readings in Public Policy

Credits: 1-3 Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798L Readings in Public Policy; Environmental Law and Finance

Credits: 3 Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798R Readings in Public Policy; Quantitative Research Methods and Public Policy

Credits: 3 Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Prerequisite: Public Policy PhD student or permission of instructor. Offered at The Brookings Institution, 1775 Massachusetts Ave, NW, Washington, DC, near the Dupont Metro station.

0101	Carol Graham	Seats (Total: 20)
	W 5:30pm - 8:00pm	Location: TBA

PUAF798T Readings in Public Policy; Sustainable Development, Democracy and Human Rights in Peru

Credits: 3 Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798X

Readings in Public Policy

Credits: 3

Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PUAF798Y

Readings in Public Policy; Non-Profit Management

Credits: 3

Grading Method: Regular,
Audit

Guided readings for discussions on public policy.

0101	Robert Grimm	Seats (Total: 22)
	Th 4:15pm - 6:45pm	VMH 1207

PUAF898

Pre-Candidacy Research

Credits: 1-8

Grading Method: Regular

Contact department for information to register for this course.

PUAF899

Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.

RDEV

Real Estate Development

Spring 2016

RDEV250

People, Planet, and Profit: Building Sustainable Places

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Also offered as: ARCH271. Credit only granted for: RDEV150, RDEV250. Formerly: RDEV150.

An introduction to building communities, commonly referred to as real estate development and involving multiple professions and disciplines, including Architecture and Urban Design, Community Planning, Historic Preservation, Landscape Architecture, Civil Engineering, Law, Finance and Accounting, that have to come together to build more sustainable places for the future by emphasizing the quadruple bottom line of: (1) financial viability, (2) environmental sensitivity, (3) social/cultural responsibility and (4) sustainable design. The course will provide students with an understanding of the fundamental principles and processes of these disciplines and examine the intersections between them. Students will learn through field studies, lecture, discussion, presentations and interactions with multiple professionals

Also offered as ARCH271. Credit granted for RDEV250 or ARCH271.

0101	Heidi Bulich	Seats (Total: 140)
	Tu 7:00pm - 9:40pm	ARC 0204

RDEV630 Fundamentals of Real Estate Development and Finance

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV630, RDEV688B, or URSP664. Formerly: RDEV688B.

An introduction to real estate development and the foundational concepts of finance and particular financial measures in underwriting real estate projects. Quantitative analyses and financial modeling comprise the main focus.

0101	Thomas Dwyer	Seats (Total: 30)
	W 7:00pm - 9:40pm	ARC 1103

RDEV650 Essentials of Design and Construction Management for Development Professionals

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Restriction: Must be in Real Estate Development (Master's) program; or permission of ARCH-Real Estate Development. Credit only granted for: RDEV650 or RDEV688C. Formerly: RDEV688C.

Essential terminology, process and substantive knowledge needed by development professionals to effectively move a project through the design and construction process; includes environmental and ethical considerations throughout the process.

0101	Matthew O'Malley	Seats (Total: 28)
	M 7:00pm - 9:40pm	ARC 1101

Selected Topics in Real Estate Development; Development Law, Process and Ethics

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: Permission of department.

0101	William Shaughnessy, Tanya Bansal, Margaret McFarland	Seats (Total: 30)
	Th 7:00pm - 9:40pm	ARC 1105

RDEV688C

Selected Topics in Real Estate Development; Writing Case Studies in Real Estate Development

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

0101	Tanya Bansal, Margaret McFarland	Seats (Total: 12)
	Th 6:00pm - 8:40pm	ARC 1119

RDEV688G

Selected Topics in Real Estate Development; Planning Policy, Practice and Politics for Real Estate Developers

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Selected topics in real estate development.

Prerequisite: permission of the department.

0101	Mary Konsoulis	Seats (Total: 20)
	W 7:00pm - 9:40pm	ARC 1101

RDEV688I

Selected Topics in Real Estate Development; Capstone Seminar in Real Estate Development

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected topics in real estate development.

Prerequisite: permission of department. A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0102	Vivian Lathom, Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1119
0103	Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 15) ARC 1125
0104	Margaret McFarland Tu 7:00pm - 9:40pm	Seats (Total: 10) ARC 1127
0106	Margaret McFarland, Timothy Pula W 7:00pm - 9:40pm	Seats (Total: 10) ARC 1125

RDEV688T Selected Topics in Real Estate Development; Introduction to Real Estate Development, Principles, Process and Practice

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected topics in real estate development.

0101	Margaret McFarland, Andres Losada Tu 7:00pm - 9:40pm	Seats (Total: 25) ARC 1101
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RDEV688V Selected Topics in Real Estate Development; Valuation and Appraisal

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected topics in real estate development.

0101	Stephen Rudow, Joseph Consoli Sa 9:30am - 12:30pm	Seats (Total: 24) ARC 1127
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RDEV688Z Selected Topics in Real Estate Development; Introduction to Real Estate Finance Basics

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Selected topics in real estate development.

0101	Daniel Moss M 7:00pm - 9:40pm	Seats (Total: 25) ARC 1103
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RDEV689I**Current Topics in Real Estate Development; Design and Development Competition**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit*Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.*

Prerequisite: Permission of department.

0101	Ronald McDonald	Seats (Total: 14)
	Th 7:00pm - 9:40pm	ARC 1127

RDEV689R**Current Topics in Real Estate Development; Retail Real Estate Development and Asset Management**

(Perm req)

Credits: 3 Grading Method: Regular,
Audit*Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.*

Prerequisite: Permission of department.

0101	Nick Egelanian	Seats (Total: 15)
	M 7:00pm - 9:40pm	ARC 1127

RDEV689Y**Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit*Explores a focused aspect in any of the five major phases of real estat development: planning, finance, law, design, construction, or management.*

Prerequisite: Permission of department.

0101	Margaret McFarland	Seats (Total: 5)
	W 7:00pm - 9:40pm	Location: TBA

RELS**Religious Studies****Spring 2016****RELS170****Greek and Roman Mythology**Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

Also offered as: CLAS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

An introduction to the mythology of ancient Greece and Rome. This course is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism. Taught in English.

0101	Francisco Barrenechea MW 10:00am - 10:50am Th 9:30am - 10:20am	Seats (Total: 25) MMH 1400 SQH 1119	Discussion
0102	Francisco Barrenechea MW 10:00am - 10:50am Th 11:00am - 11:50am	Seats (Total: 25) MMH 1400 EGR 3102	Discussion
0103	Francisco Barrenechea MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 SQH 1119	Discussion
0104	Francisco Barrenechea MW 10:00am - 10:50am F 10:00am - 10:50am	Seats (Total: 25) MMH 1400 WDS 1130	Discussion
0105	Francisco Barrenechea MW 10:00am - 10:50am Th 12:30pm - 1:20pm	Seats (Total: 25) MMH 1400 ASY 3221	Discussion
0201	Francisco Barrenechea MW 11:00am - 11:50am Th 11:00am - 11:50am	Seats (Total: 25) MMH 1400 EGR 0135	Discussion
0202	Francisco Barrenechea MW 11:00am - 11:50am Th 9:30am - 10:20am	Seats (Total: 25) MMH 1400 PHY 1402	Discussion
0203	Francisco Barrenechea MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 KEY 0116	Discussion
0204	Francisco Barrenechea MW 11:00am - 11:50am F 11:00am - 11:50am	Seats (Total: 25) MMH 1400 WDS 1130	Discussion

0205	Francisco Barrenechea	Seats (Total: 25)	
	MW 11:00am - 11:50am	MMH 1400	
	Th 12:30pm - 1:20pm	PLS 1117	Discussion
0206	Francisco Barrenechea	Seats (Total: 25)	
	MW 11:00am - 11:50am	MMH 1400	
	F 1:00pm - 1:50pm	SKN 1112	Discussion
0207	Francisco Barrenechea	Seats (Total: 25)	
	MW 11:00am - 11:50am	MMH 1400	
	F 1:00pm - 1:50pm	KEY 0121	Discussion

RELS219A Special Topics in Religious Studies; Religions of the Ancient Near East

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics in Religious Studies

Also offered as HIST219I and JWST225. Credit granted for JWST225, HIST219I, or RELS219A. Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.

0101	Matthew Suriano	Seats (Total: 40)	
	TuTh 5:00pm - 6:15pm	SQH 1101	

RELS269B Special Topics in Study Abroad II; Buddhism and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS269G Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS289D God Wills It! The Crusades in Medieval and Modern Perspective

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, SCIS

Also offered as HIST133. Credit granted for HIST133 or RELS289D.

0101	Vanessa Corcoran	Seats (Total: 20)	
	MW 10:00am - 10:50am	KEY 0102	
	M 1:00pm - 1:50pm	TLF 1101	Discussion
0102	Vanessa Corcoran	Seats (Total: 20)	
	MW 10:00am - 10:50am	KEY 0102	
	F 10:00am - 10:50am	TLF 1103	Discussion
0103	Vanessa Corcoran	Seats (Total: 20)	
	MW 10:00am - 10:50am	KEY 0102	
	F 1:00pm - 1:50pm	TLF 1103	Discussion

RELS289I

What is Religion?

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVCC, SCIS

Draws upon examples from a wide variety of religious traditions to explore the question of what religion is and how to best understand it. Engagement with diverse approaches to religion including phenomenology and the study of "the sacred"; sociology and the study of religious communities; and questions of religious experience, ritual, and identity formation.

0101	Maxine Grossman	Seats (Total: 20)	
	MW 11:00am - 11:50am	SQH 1120	
	F 10:00am - 10:50am	KEY 0117	Discussion
0102	Maxine Grossman	Seats (Total: 20)	
	MW 11:00am - 11:50am	SQH 1120	
	F 11:00am - 11:50am	KEY 0103	Discussion
0103	Maxine Grossman	Seats (Total: 20)	
	MW 11:00am - 11:50am	SQH 1120	
	F 1:00pm - 1:50pm	KEY 0125	Discussion
0104	Maxine Grossman	Seats (Total: 20)	
	MW 11:00am - 11:50am	SQH 1120	
	W 3:00pm - 3:50pm	KEY 0124	Discussion

RELS289M Jesus, Mani, and Muhammad: The Dynamics of New Religious Movements

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP, SCIS

Also offered as HIST289T. Credit granted for HIST289T or RELS289M.

0101	Hayim Lapin	Seats (Total: 40)
	TuTh 12:30pm - 1:45pm	KEY 0126

RELS319N Special Topics in Religious Studies; Introduction to Native American Cultures of the United States

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics in the study of religious history, literature, culture, and thought.

Also offered as AMST328N and ANTH468F. Credit granted for AMST328N, ANTH468F or RELS319N.

0101	L Gordon	Seats (Total: 35)
	M 4:00pm - 6:40pm	PLS 1113

RELS341 Europe in the High Middle Ages: 1000-1500

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Also offered as: HIST331. Credit only granted for: HIST331 or RELS341.

Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.

Also offered as HIST331. Credit granted for HIST331 or RELS341.

0101	Marie Ito	Seats (Total: 40)
	MW 2:00pm - 3:15pm	SKN 0104

RELS343 The European Reformations

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST112 or HIST111; or permission of instructor. Also offered as: HIST333. Credit only granted for: HIST333 or RELS343.

Examination of developments in European religion between 1450 and 1700; the late-medieval Church and its critics; rise of Protestant thought in Germany and its spread throughout Europe; reform efforts in the Catholic Church; religious wars and violence and their impact on state and society; consequences of religious reform in society and its impact on the family and women.

Also offered as HIST333. Credit granted for HIST333 or RELS343.

0101	Stefano Villani	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	TLF 1103

RELS369C Special Topics in Study Abroad III; Between Tolerance and Conflict

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369L Special Topics in Study Abroad III; Society and Religion in Latin America

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369R Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS369Z Special Topics in Study Abroad III; All Roads Lead to Rome

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

RELS419V Advanced Topics in Religious Studies; The New Mediterranean Studies and Islam

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as HIST419A. Credit granted for HIST419A or RELS419V.

0101	Ahmet Karamustafa	Seats (Total: 7)
	W 3:30pm - 6:00pm	TLF 1103

RELS419W Advanced Topics in Religious Studies; Islam in Europe

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.

Also offered as HIST419D. Credit granted for HIST419D or RELS419W.

0101	Madeline Zilfi	Seats (Total: 40)
	TuTh 11:00am - 12:15pm	KEY 0116

RELS429A Advanced Topics in Religious History; Founding Fathers and American Religion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Advanced study of religious history in a particular setting, with attention to particular themes, texts, events, or communities.

Also offered as HIST428V. Credit granted for RELS429A or HIST428V.

0101	Miles Bradbury	Seats (Total: 30)
	TuTh 9:30am - 10:45am	TLF 1103

RELS430 Dead Sea Scrolls

Credits: 3 Grading Method: Regular, General Education: DSHU,
Pass-Fail, Audit DSSP

Credit only granted for: JWST429Q, RELS419Q, or RELS430. Formerly: RELS419Q.

A study of the Dead Sea Scrolls in their ancient and modern settings, and in terms of contemporary scholarly interpretations of their meaning. Interpretations of the historical significance of these documents, their connections to ancient Jewish sectarian movements, and their implications for our understanding of Judaism, Christianity, and the history of the Bible.

Note: Also offered as JWST430. Credit granted for RELS430 or JWST430.

0101	Maxine Grossman	Seats (Total: 40)
	MW 2:00pm - 3:15pm	ASY 2309

RELS499 Independent Study in Religious Studies

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An advanced independent research project for qualified students, supervised by a faculty member, on a topic not ordinarily covered in available courses.

Contact department for information to register for this course.

RUSS Russian Spring 2016

RUSS102 Intensive Elementary Russian II

Credits: 6 Grading Method: Regular

Prerequisite: RUSS101 or RUSS102; and must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian. Credit only granted for: RUSS102 or (RUSS113 and RUSS114).

A continuation of RUSS101 which will further develop the four skills: reading, writing, listening and speaking with an emphasis on communicative competence.

0101	Elizabeth Papazian, Robert Fradkin	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 0118
	TuTh 9:30am - 10:45am	JMZ 2122
0201	Elizabeth Papazian, Robert Fradkin	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 0118
	TuTh 11:00am - 12:15pm	JMZ 2122

RUSS202 Intermediate Russian II

Credits: 5 Grading Method: Regular CORE: HO

Prerequisite: RUSS201; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Russian.

Continued activation and expansion of skills and knowledge acquired in RUSS201 with the goal of communicative competence.

0101	Zhanna Gerus-Vernola	Seats (Total: 15)
	MWF 10:00am - 10:50am	JMZ 3205
	TuTh 10:00am - 10:50am	JMZ 2125

RUSS221 Masterworks of Russian Literature I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL General Education: DSHU

Introduction to the classics of Russian literature in translation, beginning with Pushkin in the early 19th century and concluding with works of Dostoevsky and Tolstoy in the latter part of the century. Taught in English.

0101	Marianna Landa, Katherine Moskver	Seats (Total: 30)
	MWF 1:00pm - 1:50pm	JMZ 3205

RUSS282 Contemporary Russian Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO, D General Education: DSHU,
DVUP

Russia of the post-Communist era. An exploration of the cultural implications of the disintegration of the former Soviet Union. Also included is a brief introduction to the Russian language: alphabet, elementary reading and survival skills for the first time traveler. Course format includes a combination of lectures, group discussions, videos, and optional field trips. Taught in English.

0101	Cynthia Martin	Seats (Total: 60)
	M 3:30pm - 6:00pm	JMZ 0220

RUSS298C Special Topics in Russian Language and Literature; Russian Conversation and Phonetics for Intermediate Students

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Not open to native/heritage speakers or students who have completed RUSS 302. Prereq: RUSS 201 or permission of instructor.

0101	Elena Lozinsky	Seats (Total: 15)
	TuTh 12:30pm - 1:45pm	JMZ 1215

RUSS302 Advanced Russian II

Credits: 3 Grading Method: Regular

Prerequisite: RUSS301.

Advanced training in written Russian communicative structures.

0101	Maria Lekic	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 2125

RUSS321 Survey of Russian Literature I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department.

The first half of a survey of Russian literature.

0101	Maria Lekic	Seats (Total: 15)
	TuTh 2:00pm - 3:15pm	JMZ 1103

RUSS386 Experiential Learning

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.

Contact the department to obtain section numbers.

Contact department for information to register for this course.

RUSS402 Practicum in Written Russian

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: RUSS401; or students who have taken courses with comparable content may contact the department.

Designed to improve comprehension of functional varieties of written Russian and develop ability to present in written form concise syntheses of source texts.

0101	Elena Lozinsky	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	JMZ 2117

RUSS439A Selected Topics in Russian Literature; Silver and Gold

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Presentation of a topic in Russian literature.

Taught in Russian. The modernist Silver Age of Russian poetry (1890-1920s) had many more poets and a much greater variety of styles than the romantic and classicist Golden Age. Why then is it called silver and not gold? The course will survey and compare the two most celebrated epochs of Russian poetry in their historical, aesthetic and cultural contexts. Students closely read poetic masterpieces and familiarize themselves with the best of Russian literature beyond the great prose writers.

0101	Marianna Landa, Elena Lozinsky	Seats (Total: 15)
	MWF 11:00am - 11:50am	JMZ 1224

RUSS499 Independent Study in Russian

(Perm req)

Credits: 1-3 Grading Method: Regular

Independent study under faculty supervision.

Contact department for information to register for this course.

RUSS798 Independent Study

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

RUSS799 Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

SLAA Second Language Acquisition and Application

Spring 2016

SLAA410 Second Language Acquisition: Theory, Research, and Practice

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: LING200, LING240, PSYC200, PSYC221, or PSYC354.

Introduces vibrant and expanding branch of language science and cognitive science: theory, research and practice in SLA. Students apply what they learn to practical issues ranging from learning languages as an adult to societal problems involving second languages and dialects.

Also offered as LING499G. Credit granted for SLAA410 or LING499G.

0101	Michael Long	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 0118

SLAA498 Second Language Research and Practicum

(Perm req)

Credits: 1-3 Grading Method: Regular

Individualized research and practicum for undergraduate students to work as Undergraduate Research Assistants (UGRA) on existing projects under the supervision of a PhD Graduate Supervisor (GS) in the area of second language acquisition to learn/experience how second language as well as psycholinguistic research is conducted.

Open to all students interested in gaining research experience in area of second language acquisition. Contact istoiano@umd.edu for details.

0101	Instructor: TBA	Seats (Total: 10)
	Contact instructor or department for details.	

SLAA620 Second Language Research Methodologies

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: SLAA610; and must have completed or be concurrently enrolled in SLAA611.

An exploration of research methodology in second language acquisition (SLA), with a focus on developing practical skills in data analysis and interpretation. Preparation in both critical evaluation of existing research and design of new research models.

0101	Robert De Keyser	Seats (Total: 15)
	W 4:00pm - 6:30pm	JMZ 2123

SLAA640 Psycholinguistics

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.

An introduction to the field of psycholinguistics that covers speech perception, word recognition, sentence and discourse processing, speech production, and language acquisition. Basic concepts, research methods, major research topics, leading theories and related research findings, with implications of psycholinguistic theories and findings for second language studies.

0101	Nan Jiang	Seats (Total: 10)
	Tu 4:00pm - 6:30pm	JMZ 2120

SLAA649R Special Topics in Second Language Acquisition; Research Critique

Credits: 3 Grading Method: Regular,
 Audit

Current topics in research in second language acquisition.

0101	Michael Long	Seats (Total: 10)
	Th 5:00pm - 7:30pm	JMZ 1117

SLAA719 Second Language Acquisition and Application Internship

Credits: 3 Grading Method: Regular,
 Audit

Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.

Contact department for information to register for this course.

SLAA749A Special Topics in Second Language Learning; Aptitude in Second in Language Acquisition

Credits: 3 Grading Method: Regular,
 Audit

Current topics in research on Second Language Learning.

0101	Catherine Doughty	Seats (Total: 15)
	M 4:00pm - 6:30pm	JMZ 2117

SLAA749P Special Topics in Second Language Learning; Bilingual Language Processing

Credits: 3 Grading Method: Regular,
 Audit

Current topics in research on Second Language Learning.

0101	Nan Jiang	Seats (Total: 10)
	Th 1:00pm - 3:30pm	JMZ 0103

SLAA779 Directed Research in Second Language Acquisition and Application

Credits: 1-3 Grading Method: Regular,
Audit

Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.

Contact department for information to register for this course.

SLAA798 Master's Independent Study

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

SLAA799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

SLAA888 Doctoral Independent Study

Credits: 1-3 Grading Method: Regular,
Audit

Individual instruction course.

Contact department for information to register for this course.

SLAA898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

SLAA899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

**SLLC School of Languages, Literatures
and Cultures**

Spring 2016

SLLC109T Beg Less Commonly Taught Language II; Turkish

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level, as a continuation of SLLC108 (in the same language). Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

0101	Instructor: TBA	Seats (Total: 6)
Contact instructor or department for details.		

SLLC109V Beg Less Commonly Taught Language II; Vietnamese II

Credits: 4 Grading Method: Regular

Study of any of the less commonly taught languages at the elementary level, as a continuation of SLLC108 (in the same language). Speaking, listening, reading, and writing a less commonly taught language. Development of an emphasis on oral proficiency skills.

Prerequisite: SLLC108V. The second semester of 1st year Vietnamese is a CIC CourseShare online course. As you know, the instructor is at Michigan State University, but you enroll and receive credit for it at the University of Maryland. You will also need to be entered into the Michigan State University course management system Desire to Learn (D2L). Please address any questions to the MSU course coordinator: Danielle Steider, steider@msu.edu, 517-355-5105. Please note that no new materials are required; you will use the same textbook. Also, remember that although this is an online course, it is NOT self-paced. There are weekly assignments and virtual meetings (several options will be available to match your schedules.)

0101	Instructor: TBA	Seats (Total: 10)
Class time/details on ELMs		ONLINE

SLLC169L Special Topics in Study Abroad I; Basque Language and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC269D Special Topics in Study Abroad II; Catalan Language and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC299R Special Topics in World Cultures; Elementary Italian I

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC299Z Special Topics in World Cultures; Spanish Civilization and Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topic to be announced when course is offered.

Contact department for information to register for this course.

SLLC309 Language Partner Program

(Perm req) Credits: 1 Grading Method: Regular

For intermediate- to advanced-level language study. Conversations entirely in target language with native speaker.

0101	Mary Scullen	Seats (Total: 10)
Meets February 15, 2016 - May 4, 2016		
M 4:00pm - 6:00pm		Location: TBA
Contact instructor or department for details.		
<i>Arabic</i>		
0102	Mary Scullen	Seats (Total: 10)
Meets February 15, 2016 - May 4, 2016		
M 4:00pm - 6:00pm		Location: TBA
Contact instructor or department for details.		
<i>Chinese</i>		
0103	Mary Scullen	Seats (Total: 10)
Meets February 15, 2016 - May 4, 2016		
M 4:00pm - 6:00pm		Location: TBA
Contact instructor or department for details.		
<i>French</i>		
0104	Mary Scullen	Seats (Total: 10)
Meets February 15, 2016 - May 4, 2016		
M 4:00pm - 6:00pm		Location: TBA
Contact instructor or department for details.		
<i>German</i>		

0105	Mary Scullen	Seats (Total: 10)
	Meets February 15, 2016 - May 4, 2016	
	M 4:00pm - 6:00pm	Location: TBA
	Contact instructor or department for details.	
	<i>Italian</i>	
0106	Mary Scullen	Seats (Total: 10)
	Meets February 15, 2016 - May 4, 2016	
	M 4:00pm - 6:00pm	Location: TBA
	Contact instructor or department for details.	
	<i>Japanese</i>	
0109	Mary Scullen	Seats (Total: 10)
	Meets February 15, 2016 - May 4, 2016	
	M 4:00pm - 6:00pm	Location: TBA
	Contact instructor or department for details.	
	<i>Russian</i>	
0110	Mary Scullen	Seats (Total: 10)
	Meets February 15, 2016 - May 4, 2016	
	M 4:00pm - 6:00pm	Location: TBA
	Contact instructor or department for details.	
	<i>Spanish</i>	

SLLC369A
Special Topics in Study Abroad III

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369D
Special Topics in Study Abroad III; Art and Dictatorship

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC369E
Special Topics in Study Abroad III; Experiments in Czech Film

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SLLC386 Experiential Learning

Credits: 3 Grading Method: Regular,
Pass-Fail

Prerequisite: Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor and the student's internship sponsor. Restriction: Junior standing or higher.

Contact department for information to register for this course.

SLLC499W Special Topics in World Cultures; Introduction to Global Digital Humanities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Interdisciplinary, transnational or cross-language course; specific topic to be announced.

Also offered as GERM489W, HEBR498W, FREN499W, and JAPN498W. Credit granted for FREN499W, GERM489W, HEBR498W, JAPN498W, or SLLC499W. Opens a "global" window on the field of Digital Humanities (DH) and its computational tools. We will both constructively problematize the Euro-Americancentrism of the dominant DH framework and work through some of the technical challenges of developing a more global DH. Students interested in theoretical debates within DH, practical applications of DH methods to various humanities disciplines (literature, history, political science, etc.), or the purely technical dimensions of DH work (coding, statistics, etc.) are all equally welcome.

0101	Matthew Miller	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	Location: TBA

SLLC698M Special Topics in Interdisciplinary Studies; Orientation in Film Theory: Post-Cinema

Credits: 1 Grading Method: Regular,
Audit

Cross-departmental or cross-programmatic study within the School of Languages, Literatures, and Cultures. Topic to be announced when course is offered.

The colloquium will meet Fridays from 2-4pm on 1/29, 2/12, 2/26, 4/08, and 4/29 in 3132 Tawes Hall. Topics addressed include: the advent of the digital and the question of medium specificity, the supposed death of cinema and its afterlife, and the rise of globalized genres and modes of film production. Also offered as CMLT788M. Credit granted for SLLC698M or CMLT788M.

0101	Mauro Resmini	Seats (Total: 12)
Meets January 29, 2016 - April 29, 2016		
Contact instructor or department for details.		

SLLC698W Special Topics in Interdisciplinary Studies; French Writing and Time Management Seminar

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Cross-departmental or cross-programmatic study within the School of Languages, Literatures, and Cultures. Topic to be announced when course is offered.

0101	Valerie Orlando, Andrea Frisch	Seats (Total: 15)
Contact instructor or department for details.		

SLLC789 Master's Independent Study

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

SLLC889 Doctoral Independent Study

Credits: 1-3 Grading Method: Regular

Contact department for information to register for this course.

SOCY Sociology Spring 2016

SOCY100 Introduction to Sociology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SB General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

0101	Naliyah Kaya	Seats (Total: 60)
	TuTh 8:00am - 9:15am	ASY 1213
0201	Robert Pernick	Seats (Total: 47)
	MWF 12:00pm - 12:50pm	ASY 3203
0401	Robert Pernick	Seats (Total: 60)
	MWF 9:00am - 9:50am	ASY 2309

0601	Andres Villarreal	Seats (Total: 80)
	MW 3:30pm - 4:45pm	ASY 1213

SOCY105 Introduction to Contemporary Social Problems

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

0101	Daniel Swann	Seats (Total: 60)
	TuTh 8:00am - 9:15am	ASY 2309
0201	Jenelle Clark	Seats (Total: 47)
	MWF 12:00pm - 12:50pm	ASY 3207
0601	Willie Thompson	Seats (Total: 60)
	MWF 12:00pm - 12:50pm	ASY 1213
0701	Willie Thompson	Seats (Total: 60)
	MW 3:30pm - 4:45pm	ASY 2309
0801	Daniel Swann	Seats (Total: 60)
	TuTh 9:30am - 10:45am	ASY 1213

SOCY105H Introduction to Contemporary Social Problems

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

0101	Sarah Wanenchak	Seats (Total: 25)
	TuTh 9:30am - 10:45am	ASY 3221

SOCY125 Why does Educational Inequality in the U.S. Persist? Explaining Differences in Educational Attainment

Credits: 3 Grading Method: Regular General Education: DSHS, SCIS

Explores questions related to educational inequality in the US. Examines what variables other than individual ability and effort influence educational attainment - how well and how far we go in school.

0101	Linda Moghadam	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	ASY 1213	
	F 8:00am - 8:50am	ASY 3219	Discussion
0102	Linda Moghadam	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	ASY 1213	
	F 9:00am - 9:50am	ASY 3207	Discussion
0103	Linda Moghadam	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	ASY 1213	
	F 10:00am - 10:50am	ASY 3211	Discussion
0104	Linda Moghadam	Seats (Total: 20)	
	MW 2:00pm - 2:50pm	ASY 1213	
	F 11:00am - 11:50am	ASY 3221	Discussion

SOCY200

Human Societies

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human societies that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

0103	John Pease	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	F 9:00am - 9:50am	ASY 3203	Discussion
0104	John Pease	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	F 10:00am - 10:50am	ASY 3217	Discussion
0105	John Pease	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	F 9:00am - 9:50am	ASY 3221	Discussion
0106	John Pease	Seats (Total: 22)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	F 12:00pm - 12:50pm	ASY 3219	Discussion

0701	John Pease	Seats (Total: 15)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	W 11:00am - 11:50am	ASY 3219	Discussion
0801	John Pease	Seats (Total: 15)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	W 1:00pm - 1:50pm	ARC 1125	Discussion

SOCY200H

Human Societies

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS, SCIS

A comparative, historical, interdisciplinary study of human societies that focuses on the main components of human societies, how they are organized, how they change, and how they come to shape our collective social existence.

0101	John Pease	Seats (Total: 15)	
	TuTh 12:30pm - 1:45pm	ASY 2203	
	W 3:00pm - 3:50pm	EDU 2102	Discussion

SOCY201

Introductory Statistics for Sociology

(Perm req)

Credits: 4 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: SOCY100 and MATH111; or students who have taken courses with comparable content may contact the department. Restriction: Must not have completed STAT400, BMGT231, or ENEE324. Credit only granted for: BIOM301, BMGT230, CCJS200, ECON230, ECON321, EDMS451, GEOG306, GEOL351, GVPT422, PSYC200 or SOCY201.

Elementary descriptive and inferential statistics. Construction and percentaging of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.

0101	Alan Neustadt	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 2309	
	M 8:00am - 9:50am	LEF 0225	Lab
0102	Alan Neustadt	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 2309	
	M 12:00pm - 1:50pm	LEF 0225	Lab

0103	Alan Neustadt	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 2309	
	M 10:00am - 11:50am	LEF 0225	Lab
0104	Alan Neustadt	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 2309	
	M 2:00pm - 3:50pm	LEF 0225	Lab

SOCY202

Introduction to Research Methods in Sociology

Credits: 4

Grading Method: Regular,
Pass-Fail, Audit

General Education: DSSP

Prerequisite: SOCY201.

The underlying logic, major strategies, specific techniques and skills of sociological research. Research design, measurement, data collection, sampling, field research experiments, surveys, index and scale construction, data analysis, interpretation and report writing.

0101	Kris Marsh	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 1213	
	W 8:00am - 9:50am	LEF 0225	Lab
0102	Kris Marsh	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 1213	
	W 12:00pm - 1:50pm	LEF 0225	Lab
0103	Kris Marsh	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 1213	
	W 10:00am - 11:50am	LEF 0225	Lab
0104	Kris Marsh	Seats (Total: 20)	
	TuTh 11:00am - 12:15pm	ASY 1213	
	W 2:00pm - 3:50pm	LEF 0225	Lab

SOCY203

Sociological Theory

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SOCY100.

Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.

Required for all SOCY majors.

0101	Meyer Kestnbaum	Seats (Total: 80)
	TuTh 2:00pm - 3:15pm	ASY 1213

SOCY227 Introduction to the Study of Deviance

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Credit only granted for: SOCY227 or SOCY327. Formerly: SOCY327.

An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs.

0101	David Strohecker	Seats (Total: 60)
	MWF 10:00am - 10:50am	ASY 1213
0201	David Strohecker	Seats (Total: 47)
	MWF 11:00am - 11:50am	ASY 3207

SOCY230 Sociological Social Psychology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

0101	Jenelle Clark	Seats (Total: 180)
	MW 3:30pm - 4:45pm	ASY 2203

SOCY241 Inequality in American Society

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D

The dynamics of inequality: its social production, politics, future, and ideological bases. Utopian communities, efforts to eliminate inequality.

0301	Yan Yu	Seats (Total: 29)
	MW 3:30pm - 4:45pm	ASY 3207

SOCY258L Special Topics in Study Abroad II; Living Rome: Urban Spaces, Culture and Identity

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY305 Scarcity and Modern Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 3 credits in SOCY courses.

Resource depletion and the deterioration of the environment. Relationship to lifestyles, individual consumer choices, cultural values, and institutional failures. Projection of the future course of American society on the basis of the analysis of scarcity, theories of social change, current trends, social movements, government actions, and the futurist literature.

0101	Kurt Finsterbusch	Seats (Total: 29)
	TuTh 9:30am - 10:45am	ASY 3207

SOCY325 The Sociology of Gender

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Prerequisite: 3 credits in SOCY courses. Also offered as: WMST325. Credit only granted for: SOCY325 or WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

0101	Wei-hsin Yu	Seats (Total: 80)
	TuTh 12:30pm - 1:45pm	ASY 1213
0601	Sarah Wanenchak	Seats (Total: 47)
	TuTh 8:00am - 9:15am	ASY 3203

SOCY358F Special Topics in Study Abroad III; Sociology of Contemporary Italy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY358L Special Topics in Study Abroad III; European Traditions in Sociology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY358O Special Topics in Study Abroad III; Virtual Worlds and Social Media

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY358V Special Topics in Study Abroad III

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY380 Honors Independent Reading in Sociology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of BSOS-Sociology department. Formerly: SOCY378.

This course permits sociology honor students to undertake a program or reading on a particular problem in sociology or a subfield therein. The reading will be done under the supervision of a member of the sociology faculty. Required of sociology honor students.

0101	Linda Moghadam	Seats (Total: 10)
Contact instructor or department for details.		

SOCY381 Honors Independent Research in Sociology

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SOCY380. Formerly: SOCY388.

This course permits sociology students to define a particular problem in sociology or a subfield therein and to develop a research plan for use as a thesis topic. The work will be done under the supervision of a member of the sociology faculty.

Contact department for information to register for this course.

SOCY383**Honors Thesis Research**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Prerequisite: SOCY381. Formerly: SOCY389.**Student research under the direction of a member of the sociology faculty, culminating in the presentation and defense of a thesis reporting the research.***Contact department for information to register for this course.**

SOCY386**Experiential Learning**

(Perm req)

Credits: 3-6

Grading Method: Regular,
Pass-Fail*Restriction: Permission of BSOS-Sociology department; and junior standing or higher.*

To register, students must have departmental permission form signed by instructor and by Coordinator of Sociology Undergraduate Program.

Contact department for information to register for this course.

SOCY398D**Special Topics in Sociology; Sociology of Disability**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Topics of special interest to both sociology majors and non-majors.*

0101

Ann Forsythe

Seats (Total: 30)

TuTh 11:00am - 12:15pm

ASY 3207

SOCY398I**Special Topics in Sociology; Israeli Society: History, Sociology, and Art**

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit*Topics of special interest to both sociology majors and non-majors.*

Also offered as ISRL349M. Credit granted for ISRL349M or SOCY398I. Israel's cultural history through the lenses of sociology, history, and art. In examining the cultural diversity and multiple identities that characterize Israeli society, the course will provide keys to understand the place of immigration waves that shaped its demographic, social, and political structure.

0101

Pnina Peri

Seats (Total: 35)

MW 2:00pm - 3:15pm

SQH 1121

SOCY398L Special Topics in Sociology; Service Learning

(Perm req)

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

0101	Instructor: TBA	Seats (Total: 20)
Contact instructor or department for details.		

SOCY398P Special Topics in Sociology; Maryland Internship Program

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Must have departmental permission to register. Also offered as GVPT388P. Credit granted for GVPT388P or SOCY398P.

0101	Raymond Williams	Seats (Total: 25)
	M 6:00pm - 8:45pm	TYD 2110

SOCY398T Special Topics in Sociology; Identity and Culture in Italy: A Comparative Approach

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to both sociology majors and non-majors.

Contact department for information to register for this course.

SOCY399 Independent Study in Sociology

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

No more than 6 hours of 399 is allowed for credit.

Contact department for information to register for this course.

SOCY399G Independent Study in Sociology; Social Policy, Social Exclusion

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.

Contact department for information to register for this course.

SOCY424 Sociology of Race Relations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Also offered as: AAST424. Credit only granted for: AAST424 or SOCY424.

Analysis of race-related issues, with a primary focus on American society. The historical emergence, development, and institutionalization of racism; the impact of racism on its victims; and racially based conflict.

Contact department for information to register for this course.

SOCY428 Research in Inequality

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This is the special topics research course for Stratification and Inequality.

0101	Reeve Vanneman	Seats (Total: 29)
	TuTh 3:30pm - 4:45pm	ASY 3203

SOCY431 Principles of Organizations

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Structural and processual characteristics of organizations that make them effective for different purposes and in different environments. Effects of different institutional environments, small group processes, organizational networks, and leadership. Types of organizations studied include formal bureaucracies, professional organizations, and voluntary associations.

0101	Kurt Finsterbusch	Seats (Total: 29)
	TuTh 2:00pm - 3:15pm	ASY 3203

SOCY441 Social Stratification and Inequality

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department. Restriction: Junior standing or higher.

The sociological study of social class, status, and power. Topics include theories of stratification, correlates of social position, functions and dysfunctions of social inequality, status inconsistency, and social mobility.

0101	John Pease	Seats (Total: 80)
	TuTh 9:30am - 10:45am	ASY 2309

SOCY443 The Family and Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Study of the family as a social institution; its biological and cultural foundations, historical development, changing structures and functions, the interaction of marriage and parenthood, disorganizing and reorganizing factors in present-day trends.

0101	Philip Cohen	Seats (Total: 29)
	MWF 10:00am - 10:50am	ASY 3203

SOCY458Z Special Topics in Study Abroad IV; Gender and Sexuality in Scandinavia

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SOCY464 Military Sociology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Social change and the growth of military institutions. Complex formal military organizations. Military service as an occupation or profession. The sociology of military life. Relations between military institutions, civilian communities and society.

0101	Thomas Crosbie	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	ASY 3203

SOCY467**Sociology of Education**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.

Sociological analysis of educational institutions and their relation to society: goals and functions, the mechanisms of social control, and the impacts of stratification and social change. Study of the school as a formal organization, and the roles and subcultures of teachers and students.

0101	Linda Moghadam	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	ASY 3207

SOCY498**Selected Topics in Sociology**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY498A**Selected Topics in Sociology; Social Networks**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Christina Prell	Seats (Total: 20)
	MW 2:00pm - 3:15pm	ASY 3207

SOCY498B**Selected Topics in Sociology; Black Middle Class**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Kris Marsh	Seats (Total: 29)
	TuTh 9:30am - 10:45am	ASY 3203

SOCY498K**Selected Topics in Sociology; Youth, Resistance, and Social Control**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY498L Selected Topics in Sociology; Global Social Policy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY498O Selected Topics in Sociology; The Social Psychology of Groups

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Jenelle Clark	Seats (Total: 29)
	MWF 11:00am - 11:50am	ASY 3203

SOCY498P Selected Topics in Sociology; Sociology of Cities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY498Q Selected Topics in Sociology; Income Inequality

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Roberto Korzeniewicz	Seats (Total: 29)
	TuTh 3:30pm - 4:45pm	ASY 3207

SOCY498R Selected Topics in Sociology; Race and Class-Based Identities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Rashawn Ray	Seats (Total: 29)
	MW 2:00pm - 3:15pm	ASY 3203

SOCY498T Selected Topics in Sociology; Sociology of the Arts

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY498V Selected Topics in Sociology; Homelessness

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

0101	Reeve Vanneman	Seats (Total: 29)
	TuTh 12:30pm - 1:45pm	ASY 3203

SOCY498Z Selected Topics in Sociology; Pratical Sociology

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.

Contact department for information to register for this course.

SOCY601 Statistics For Sociological Research I

(Perm req) Grading Method: Regular,
Credits: 3 Audit

Prerequisite: SOCY201; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY601 and SURV601.

Introductory statistical concepts are covered including descriptive statistics, probability, sampling distributions, expected values, hypothesis testing, tests of significance, measures of association, and if time permits, introduction to regression analysis. Statistical programming software may be used.

0101	Alan Neustadt	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	ASY 1101

SOCY630 Population and Society

Credits: 3 Grading Method: Regular,
 Audit

Selected problems in the field of population; quantitative and qualitative aspects; American and world problems.

0101	Feinian Chen	Seats (Total: 20)
	W 3:30pm - 6:00pm	ASY 1101

SOCY634 Attitudes and Public Opinion

Credits: 3 Grading Method: Regular,
 Audit

Processes involved in the formation of attitudes; effects of communication; measurement techniques.

0101	Stanley Presser	Seats (Total: 20)
	Th 3:30pm - 6:00pm	ASY 1101

SOCY699 Special Social Problems

Credits: 1-16 Grading Method: Regular
Contact department for information to register for this course.

SOCY699B Special Social Problems; Globalization and Activism

Credits: 3 Grading Method: Regular,
 Audit

0101	Dana Fisher	Seats (Total: 20)
	Tu 3:30pm - 6:00pm	ASY 1101

SOCY699C Special Social Problems; Introduction to Computing for Sociologists

Credits: 1 Grading Method: Regular,
 Audit

0101	Alan Neustadt	Seats (Total: 10)
	W 9:00am - 10:50am	LEF 0214

SOCY699D Special Social Problems; Families and Modern Social Theory

Credits: 3 Grading Method: Regular,
Audit

0101	Philip Cohen	Seats (Total: 20)
	W 6:30pm - 9:00pm	ASY 2115

SOCY699E Special Social Problems; Critical Race Initiative

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Permission of instructor required.

0101	Kris Marsh	Seats (Total: 10)
	Contact instructor or department for details.	

SOCY699P Special Social Problems; Proseminar

Credits: 1 Grading Method: Regular,
Audit

0101	Liana Sayer	Seats (Total: 20)
	M 12:00pm - 12:50pm	ASY 4111

SOCY699T Special Social Problems; Teaching Sociology

Credits: 1 Grading Method: Regular

0101	Linda Moghadam	Seats (Total: 20)
	M 12:00pm - 12:50pm	ASY 2115

SOCY699V Special Social Problems; Contexting Sociology

Credits: 1 Grading Method: Regular

Restricted to Sociology graduate students.

0101	Philip Cohen	Seats (Total: 10)
	Tu 11:00am - 11:50am	ASY 4111

SOCY709D Advanced Special Topics in Data Analysis; Advanced Social Statistics

Credits: 3 Grading Method: Regular,
 Audit

An intensive examination of an area of interest in data analysis, including such topics as log linear analysis; discriminant function analysis; canonical correlation; factor analysis; analysis of qualitative data; content analysis; mathematical models.

0101	Michael Rendall	Seats (Total: 20)
	M 3:30pm - 6:00pm	ASY 1101

SOCY709P Advanced Special Topics in Data Analysis; Network Analysis

Credits: 3 Grading Method: Regular,
 Audit

An intensive examination of an area of interest in data analysis, including such topics as log linear analysis; discriminant function analysis; canonical correlation; factor analysis; analysis of qualitative data; content analysis; mathematical models.

Also offered as ANTH689N and GEOG788S. Credit Granted for ANTH689N, GEOG 788S. and ANTH689N. This course is intended as a survey of the theory and methods pertaining to social networks. Class time will be devoted to learning principles, theoretical perspectives, and appropriate software packages (mainly those in R) for analyzing social network data. The readings are a combination of introductory-level material, classic, scholarly readings in the field and empirical studies that apply social network analytic techniques to topics relevant to sociology and the social sciences as a whole. The first weeks are structured around readings, group discussion, and lab (e.g. going through example scripts in R). The last few weeks are geared more towards students' individual projects, culminating in small presentations (similar to conference paper presentations) on a topic of your choosing, and a final paper/project, again shaped according to your own needs/interests. Please note: this syllabus is subject to change, based on classroom discussion and needs.

0101	Christina Prell	Seats (Total: 15)
	W 3:30pm - 6:00pm	ASY 3211

SOCY799 Master's Thesis Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

SOCY819 Research Seminar in Social Psychology

Credits: 1 Grading Method: Regular,
 Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in social psychology.

0101	Jeffrey Lucas	Seats (Total: 10)
Contact instructor or department for details.		

SOCY829 Research Seminar in Sociological Theory

Credits: 1 Grading Method: Regular,
Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in sociological theory.

0101	Meyer Kestnbaum	Seats (Total: 10)
Contact instructor or department for details.		

SOCY849 Research Seminar in Demography

Credits: 1 Grading Method: Regular,
Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in demography.

0101	Sonalde Desai	Seats (Total: 10)
Contact instructor or department for details.		

SOCY858 Research Seminar in Gender, Work and Family

Credits: 1 Grading Method: Regular,
Audit

An advanced research seminar for students preparing to do research or take the specialty examination in Gender, Work and Family.

0101	Liana Sayer	Seats (Total: 10)
Contact instructor or department for details.		

SOCY869 Research Seminar in Military Sociology

Credits: 1 Grading Method: Regular,
Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in military sociology.

0101	Meredith Kleykamp	Seats (Total: 10)
Contact instructor or department for details.		

SOCY889 Research Seminar in Social Stratification

Credits: 1 Grading Method: Regular,
Audit

An advanced research seminar for students preparing to do research or take comprehensive examinations in stratification.

0101	Philip Cohen	Seats (Total: 10)
Contact instructor or department for details.		

SOCY898 Pre-Candidacy Research

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

SOCY899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular

Contact department for information to register for this course.

SPAN Spanish Spring 2016

SPAN103 Intensive Elementary Spanish

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Carla Onate	Seats (Total: 25)
	F 11:00am - 11:50am	JMZ 3205
	MTuW 11:00am - 11:50am	JMZ 0103
0201	Carla Onate	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 0103
	Tu 12:00pm - 12:50pm	JMZ 0103

0301	Carla Onate	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0103
	Tu 1:00pm - 1:50pm	JMZ 0103
0401	Carla Onate	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	JMZ 1120
	Tu 2:00pm - 2:50pm	JMZ 1124

SPAN169L Special Topics in Study Abroad I; Spanish Language A1

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169M Special Topics in Study Abroad I; Spanish Language A2

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169O Special Topics in Study Abroad I; Beginner Spanish I

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169P Special Topics in Study Abroad I; Beginner Spanish II

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169X Special Topics in Study Abroad I; Elementary Spanish I

Credits: 2-6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN169Y Special Topics in Study Abroad I; Elementary Spanish II

Credits: 2-6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN203 Intensive Intermediate Spanish

Credits: 4 Grading Method: Regular, CORE: HO
Pass-Fail, Audit

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score.

Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

0101	Nancy Naranjo Garcia	Seats (Total: 25)
	MWF 9:00am - 9:50am	JMZ 1117
	Th 9:00am - 9:50am	JMZ 3205
0201	Matthew Lewis	Seats (Total: 25)
	MWThF 10:00am - 10:50am	JMZ 0208
0301	Keisha Allan	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 0208
	Th 11:00am - 11:50am	JMZ 0120
0401	Daniela Bulansky	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 0125
	Th 11:00am - 11:50am	JMZ 0103
0501	Monica Ocasio	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 0208
	Th 12:00pm - 12:50pm	JMZ 0120
0601	Douglas Glynn	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 0125
	Th 12:00pm - 12:50pm	JMZ 0103

0701	Monica Ocasio	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0208
	Th 1:00pm - 1:50pm	JMZ 2207
0801	Norman Mora Quintero	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0118
	Th 1:00pm - 1:50pm	JMZ 0125
0901	Evelyn Canabal-Torres	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	JMZ 1117
	Th 2:00pm - 2:50pm	JMZ 3120

SPAN204

Spanish Grammar Review

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score.

Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

0101	Maria Monsalve	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 0205
0201	Mary Hernandez-Gordillo	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0122
BL01	Sebastian Bartis	Seats (Total: 25)
	MWF 10:00am - 10:50am	PLS 1111
	Class time/details on ELMs	ONLINE

SPAN206

Review of Oral and Written Spanish for Native Speakers Educated in the United States

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must have native or near native knowledge of oral Spanish; and must have no formal education in Spanish.

Review of oral and written Spanish for students who have native or near-native ability in Spanish, but have never studied it in a formal setting.

0101	Evelyn Canabal-Torres	Seats (Total: 25)
	MF 10:00am - 10:50am	JMZ 3120
	W 10:00am - 10:50am	JMZ 3120

SPAN207 Reading and Writing in Spanish

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Prerequisite: Minimum grade of B+ in SPAN203; or must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

0101	Chila Hidalgo	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 2207
0201	Chila Hidalgo	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 1124
0301	Meghan Hamorsky	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 1124
0401	Chila Hidalgo	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1215
0501	Chila Hidalgo	Seats (Total: 25)
	MWF 2:00pm - 2:50pm	JMZ 1215

SPAN229A Selected Topics in Latin American Culture; Villains, Heroes, and Deviants: Representations of the Bandit in Latin American Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Varied topics in Latin America culture.

Also offered as PORT229A and LASC248A. Credit granted for LASC248A, PORT229A or SPAN229A. Exploration of the diverse roles played by the bandit in Latin American fiction, film, photography, and other media; and of the historical, political, and social contexts that have contributed to their popular place in the cultural imagination.

0101	Thayse Lima	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	JMZ 0205

SPAN235 Issues in Latin American Studies II

Credits: 3 Grading Method: Regular CORE: HO, D

Also offered as: PORT235, LASC235. Credit only granted for: SPAN235, PORT235, or LASC235.

Major issues shaping Latin American and Caribbean societies including the changing constructions of race, ethnicity, gender and class as well as expressions of popular cultures and revolutionary practices. A continuation of SPAN/PORT/LASC234, but completion of 234 is not a prerequisite. Taught in English.

0101	Reid Gustafson	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	JMZ 1122
0201	Lucinda Grinnell	Seats (Total: 35)
	MW 11:00am - 12:15pm	KEY 0116

SPAN269A Special Topics in Study Abroad II; B1 Intermediate Level Spanish I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269B Special Topics in Study Abroad II; B1 Intermediate Level Spanish II

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269I Special Topics in Study Abroad II; Intensive Intermediate Spanish

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN269L Special Topics in Study Abroad II; Intermediate Spanish I - B1

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN301 Advanced Grammar and Composition I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in SPAN207.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.

0101	Jose Contreras	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 0125
0201	Aida Garcia Revuelta	Seats (Total: 20)
	MWF 12:00pm - 12:50pm	JMZ 2120
0301	Ana Acedo Garcia	Seats (Total: 20)
	MWF 1:00pm - 1:50pm	JMZ 1122
0401	Ana Acedo Garcia	Seats (Total: 20)
	MWF 2:00pm - 2:50pm	JMZ 2206
BL01	Ana Acedo Garcia	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 2120
	Class time/details on ELMs	ONLINE
BL02	Ana Acedo Garcia	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 2120
	Class time/details on ELMs	ONLINE

SPAN302 Advanced Grammar and Composition II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301.

Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.

0101	Douglas Glynn MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 0125
BL01	Matthew Lewis MWF 12:00pm - 12:50pm Class time/details on ELMs	Seats (Total: 20) JMZ 2206 ONLINE

SPAN303
Approaches to Cultural Materials in the Hispanic World

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: DSHU

Prerequisite: SPAN207; or permission of instructor.

Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.

0101	Daybert Linares MWF 10:00am - 10:50am	Seats (Total: 20) JMZ 0122
0201	Mehl Penrose MWF 11:00am - 11:50am	Seats (Total: 20) JMZ 0122
0301	Maria Bort Caballero MWF 12:00pm - 12:50pm	Seats (Total: 20) JMZ 0122
0401	Kayla Watson MWF 1:00pm - 1:50pm	Seats (Total: 20) JMZ 2120
0501	Kayla Watson MWF 2:00pm - 2:50pm	Seats (Total: 20) JMZ 2120
0601	Hernan Sanchez TuTh 12:30pm - 1:45pm	Seats (Total: 20) JMZ 3203
0701	Eyda Merediz TuTh 2:00pm - 3:15pm	Seats (Total: 20) JMZ 2207

SPAN306
Spanish II for Native Speakers

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN206.

Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical and stylistic devices will be highlighted. Designed for Spanish speakers educated in English.

0101	Evelyn Canabal-Torres	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 3120

SPAN307 Oral Communication Skills for Native Speakers of Spanish

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Development of techniques for formal public speaking in Spanish. Writing and delivering oral presentations for varied audiences and purposes. Includes strategies for organization, the use of rhetorical patterns, and the development of effective discourse. Designed for bilingual students who are native speakers of Spanish (Heritage Language learners), who have been educated in the U.S. and whose Spanish ability is mainly oral.

0101	Evelyn Canabal-Torres	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1117

SPAN315 Commercial Spanish I

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments.

Contact department for information to register for this course.

SPAN316 Practicum in Translation I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Translation of non-literary, non-technical texts into Spanish and/or English.

0101	Manel Lacorte	Seats (Total: 20)
	TuTh 12:30pm - 1:45pm	JMZ 2206

SPAN318 Translation of Technical Texts

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Translation of technical and specialized texts in various fields (e.g. medicine, law, international affairs, social work, journalism, technology) into Spanish and/or English.

Prerequisite: Completion of SPAN316.

0101	Macarena Garcia-Avello Fernandez-Cueto	Seats (Total: 20)
	MWF 11:00am - 11:50am	JMZ 1103
0201	Maria Gomez-Martin	Seats (Total: 20)
	MWF 10:00am - 10:50am	JMZ 2117

SPAN331 Spanish Culture, Civilization and Literature I: Medieval Times

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN325 or SPAN321. Credit only granted for: SPAN321, SPAN325, or SPAN331.

The exploration of cultures of the Iberian Peninsula from its origins until the 15th century as well as the study of historical and political events that gave rise to the Spanish state. Taught in Spanish.

Contact department for information to register for this course.

SPAN332 Spanish Culture, Civilization and Literature II: Renaissance and Baroque

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor.

An overview of cultural and literary production of Spain from the late 15th through late 17th centuries, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

0101	Carmen Benito-Vessels	Seats (Total: 25)
	MW 2:00pm - 3:15pm	KNI 1105

SPAN333**Spanish Culture, Civilization and Literature III: Modern Times**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN322 or SPAN326. Credit only granted for: SPAN322, SPAN326, or SPAN333.

An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.

0101	Hernan Sanchez	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	JMZ 3203

SPAN335**Cultural History of Seville**

Credits: 4 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301. Recommended: SPAN303.

Cultural History of Seville: An exploration of the Iberian, Mediterranean, and transatlantic contexts shaping the history, identity, and cultural and artistic expressions of Seville. Includes texts from the Middle Ages to the twenty first century. Focus on the historical, literary and cultural evolution of Seville from the Roman Empire and the Moorish occupation to the discovery and conquest of America until present times. Taught in Spanish.

Contact department for information to register for this course.

SPAN361**Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN323 or SPAN346. Credit only granted for: SPAN361, SPAN323, or SPAN346.

Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.

Contact department for information to register for this course.

SPAN362**Latin American Literatures and Cultures II: From Independence to Nation Formation**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor.

An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

0101	Luis Charry	Seats (Total: 25)
	MWF 12:00pm - 12:50pm	JMZ 3203
0201	Laura Demaria	Seats (Total: 25)
	MW 2:00pm - 3:15pm	JMZ 2122

SPAN363 Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN301 and SPAN303; or permission of instructor. Restriction: Must not have completed SPAN324 or SPAN347. Credit only granted for: SPAN324, SPAN347, or SPAN363.

An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.

0101	Juan Carlos Quintero-Herencia	Seats (Total: 25)
	TuTh 12:30pm - 1:45pm	JMZ 2122
0201	Ryan Long	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 2207

SPAN369A Special Topics in Study Abroad III; Advanced Oral Communication in Spanish

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369B Special Topics in Study Abroad III; Advanced Academic Writing in Spanish

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369F Special Topics in Study Abroad III; Spanish Oral Skills through Theatre

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369G Special Topics in Study Abroad III; Spanish for the Health Professional

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369I Special Topics in Study Abroad III; Advanced Studies in Spanish

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369M Special Topics in Study Abroad III; Intermediate Spanish I- B2

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369O Special Topics in Study Abroad III; Spanish Conversation and Oral Skills

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Q Special Topics in Study Abroad III; Spanish Phonetics and Phonology

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369R Special Topics in Study Abroad III; Advanced Reading Skills in Spanish

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369T Special Topics in Study Abroad III; Angloamerican Travelers in Spain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369V Special Topics in Study Abroad III; Advanced Present-Day Spanish Usage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369W Special Topics in Study Abroad III; Spanish Stylistics / Advanced Spanish Writing and Stylistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Y Special Topics in Study Abroad III; B2 Advanced Level Spanish 1

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN369Z Special Topics in Study Abroad III; B2 Advanced Level Spanish 2

Credits: 6 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN371 Spanish for the Health Professions

(Perm req)

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: SPAN301; and SPAN316. Or permission of instructor. Credit only granted for: SPAN371, SPAN389A. Formerly: SPAN389A.

Exploration of cultural and linguistic skills for the health professions including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary.

By department permission only.

0101	Roberta Lavine	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	JMZ 2120

SPAN386

Experiential Learning

(Perm req)

Credits: 3-6

Grading Method: Regular,
Pass-Fail

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.
Restriction: Junior standing or higher.*

Contact department for information to register for this course.

SPAN399

Independent Study in Spanish

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Prerequisite: permission of department.

Contact department for information to register for this course.

SPAN401

Advanced Composition I

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN402

Advanced Composition II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN408J Great Themes of the Hispanic Literatures; Contemporary Mexican Literature

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408N Great Themes of the Hispanic Literatures; Love, Science, Religion and the Pursuit of Criollo Independence in 18th-Century Mexico

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408T Great Themes of the Hispanic Literatures; Latina/o Communities and Language Struggles

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Completion of one from SPAN 331, 332, 333, 361, 362, 363. This course explores the relationship between Latina/o communities and their language choices, negotiations, and struggles in the United States, starting with the Spanish conquest of North America in the 1500s and extending through the 21st century. We will examine the origins of Spanish and Spanish-speakers in U.S. territory, the arrival of English and English speakers in the U.S. Southwest, and the current resurgence Spanish and Latin cultures in the United States. We will study novels, poems, music, art, and films, among other texts, representing the experiences of U.S. Latinas/os. Students will participate in a community engagement project.

0101	Ana Rodriguez	Seats (Total: 25)
	TuTh 9:30am - 10:45am	JMZ 1117

SPAN408V Great Themes of the Hispanic Literatures; The Sublime and the Grotesque in Spanish Romantic Plays and the Visual Arts

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Completion of one from SPAN 331, 332, 333, 361, 362, 363. This course explores the notions of the sublime and the grotesque in theatrical works as well as in the visual arts of the Romantic period in Spain. The course examines the origins and definitions of the sublime and the grotesque. We will question how emotional states could affect both creator (author, artist) and consumer (reader, viewer). We will also focus on the ways in which the fantastic, strange, and incongruous -lo grotesco- informed artists and authors approaches to the sublime in their works.

0101	Mehl Penrose	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 0205

SPAN408W Great Themes of the Hispanic Literatures; Paradise Lost: Cuban Cinematic Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Completion of one from SPAN 331, 332, 333, 361, 362, 363. This course will explore the cinematic journey of the Cuban revolution from socialist utopia to bitter disillusionment. Our objective is to explore how arts and politics collide to reveal contested visions of a social process.

0101	Eyda Merediz	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 1120

SPAN408X Great Themes of the Hispanic Literatures; The Usable Past: Reflecting on Archives in Contemporary Fictions and Films from the Southern Cone

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Prerequisite: Completion of one from SPAN 331, 332, 333, 361, 362, 363. Che Guevara on a t-shirt, Eva Peron in a Broadway musical, Bolivar as a transvestite, Gabriela Mistral on a peso bill, Pablo Neruda as the friend of a postman, Artigas in a blues band...This list can continue. Nevertheless, what all these appropriations have in common is that the present used the past to inscribe a functional narrative for that time. This course will not ask if we can know the past, but rather it will explore how contemporary fictions and films from the Southern Cone construct usable cultural archives for their present.

0101	Laura Demaria	Seats (Total: 25)
	MW 3:30pm - 4:45pm	JMZ 2122

SPAN408Y Great Themes of the Hispanic Literatures; Contemporary Spanish Short Story

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN408Z Great Themes of the Hispanic Literatures; 20th Century Contemporary Latin American Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Major themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409F Great Themes of the Hispanic Literatures; Mitos Literarios y Filosofia en la Tradicion Europea

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409M Great Themes of the Hispanic Literatures; Contemporary Spain through Spanish Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409N Great Themes of the Hispanic Literatures; 20th Century Spanish History and Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409O Great Themes of the Hispanic Literatures; Images of Spain in Contemporary Cinema

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409W Great Themes of the Hispanic Literatures; Women Writers of Spain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409Y Great Themes of the Hispanic Literatures; Filmmaking in Spain

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN409Z Great Themes of the Hispanic Literatures; Spanish Film and Theatre

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.

Contact department for information to register for this course.

SPAN415 Commercial Spanish II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN315; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Sophomore standing or higher.

Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of international topics. Cross-cultural considerations relative to international business operations, including exporting and banking.

0101	Fabian Faccio	Seats (Total: 25)
	MWF 10:00am - 10:50am	JMZ 2206
0201	Fabian Faccio	Seats (Total: 25)
	MWF 11:00am - 11:50am	JMZ 2206
0301	Fabian Faccio	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 2206

SPAN422 Cross-Cultural Communication

Credits: 3 Grading Method: Regular, General Education: DVCC
Pass-Fail, Audit

Prerequisite: SPAN301. Restriction: Junior standing or higher. Additional information: Taught in Spanish.

Focuses on the relationship of language and culture of those operating in world markets. Particular attention will be given to cross-cultural communication, linguistic systems, and culture specific perceptions of the Hispanic world.

0101	Roberta Lavine	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	JMZ 2123

SPAN426 Introduction to Hispanic Linguistics II: Language in Use

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN425. Also offered as: SPAN626.

Designed for students without previous experience in Linguistics. Focus on language variation and use, linguistic change, and bilingualism.

0101	Manel Lacorte	Seats (Total: 20)
	TuTh 3:30pm - 4:45pm	JMZ 1117

SPAN430

Cervantes: Don Quijote

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Contact department for information to register for this course.

SPAN449A

Special Topics in Spanish Civilization; Spanish Civilization

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449C

Special Topics in Spanish Civilization; History of Spain II: 20th Century

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449J

Special Topics in Spanish Civilization; Mosaic: Jews, Muslims and the Spanish Experience

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449M

Special Topics in Spanish Civilization; Barcelona and Madrid: Contemporary Film and Theatre

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449Q

Special Topics in Spanish Civilization; 20th Century History of Spain and the Basque Country

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN449Z Special Topics in Spanish Civilization; Literature and Cinema in the Contemporary City

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An intensive study of a selected topic related to Spanish civilization.

Contact department for information to register for this course.

SPAN462 Twentieth Century Drama

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Significant plays of the twentieth century.

Contact department for information to register for this course.

SPAN464 Contemporary Spanish Poetry

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

Spanish poetry from the generation of 1927 to the present.

Contact department for information to register for this course.

SPAN466 The Contemporary Spanish Novel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.

The novel and the short story from 1940 to the present.

Contact department for information to register for this course.

SPAN469A Study Abroad Special Topics IV; Advanced Topics in Spanish Language

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN469C Study Abroad Special Topics IV; Composition

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

SPAN479 Honors Thesis

(Perm req) Credits: 3-6 Grading Method: Regular,
Pass-Fail, Audit

Researching and writing an honors thesis under the direction of a professor.

Contact department for information to register for this course.

SPAN495 Honors Reading

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must be in Spanish and Portuguese Honors; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Supervised reading.

Contact department for information to register for this course.

SPAN610 The History of the Spanish Language

Credits: 3 Grading Method: Regular,
Audit

0101	Carmen Benito-Vessels	Seats (Total: 10)
	M 5:00pm - 7:30pm	JMZ 1117

SPAN699 Independent Study in Spanish

Credits: 1-3 Grading Method: Regular,
Audit

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Contact department for information to register for this course.

SPAN798J Open Seminar; Poetics and Politics of the Latin American Essay

Credits: 3 Grading Method: Regular,
Audit

This course aspires to become a collective exercise on the practice of writing, including the theoretical practice embedded in the Latin American essay. This course, especially, mobilizes a kind of pendulum, a back and forth between a few essential essays in the history of modern and contemporary literary theory and crucial Latin American essays.

0101	Juan Carlos Quintero-Herencia	Seats (Total: 10)
	Tu 5:00pm - 7:30pm	JMZ 2215F

SPAN798K Open Seminar; Writing Mexico: Text, Voice, and Nation

Credits: 3 Grading Method: Regular,
Audit

This seminar focuses on the different ways in which twentieth-century and contemporary works of fiction from Mexico develop commentaries on their own representative capacities, especially regarding their depictions of topics relevant to the nation and other ways of imagining community. Such commentaries may take various forms, including but not limited to the development of writing as a topic; the establishment of dialogues with other media, such as music or film; the written construction of orality; and autobiography. Relevant fictional and theoretical texts will be assigned.

0101	Ryan Long	Seats (Total: 10)
	W 5:00pm - 7:30pm	JMZ 1117

SPAN799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

SPAN898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

SPAN899 Doctoral Dissertation Research

(Perm req) Grading Method: Regular, Sat-
Credits: 6 Fail

Contact department for information to register for this course.

SPHL Public Health Spring 2016

SPHL498F Special Topics in Public Health; Social, Political, and Ethical Issues of Public Health

Credits: 3 Grading Method: Regular

Topical and interdisciplinary courses of interest to upper level undergraduate students in the field of Public Health not currently covered by the program.

0101	Gretchen De Silva Tu 4:00pm - 6:30pm	Seats (Total: 50) KEB 1200 <i>Restricted to College Park students in the Public Health Science major (code 12140).</i>
0201	Andrew Venezia Tu 4:00pm - 6:30pm	Seats (Total: 15) SPH 2234CC
SG91	Alyssa Brooks M 5:00pm - 7:50pm	Seats (Total: 15) Location: TBA <i>Restricted to Shady Grove Students in the Public Health Science major (code 12140).</i>
SG92	Kristin Cipriani Tu 5:00pm - 7:50pm	Seats (Total: 15) Location: TBA <i>Restricted to Shady Grove Students in the Public Health Science major (code 12140).</i>
SG93	Blair Coleman W 6:00pm - 8:50pm	Seats (Total: 15) Location: TBA <i>Restricted to Shady Grove Students in the Public Health Science major (code 12140).</i>

SPHL498G

Special Topics in Public Health; Public Health in the City: Global and Domestic Perspectives on the Urban Environment

Credits: 3

Grading Method: Regular

General Education: DSHS,
DVUP, SCIS

Topical and interdisciplinary courses of interest to upper level undergraduate students in the field of Public Health not currently covered by the program.

Restricted to students in the Public Health Science major (code 12140) A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

SG91	Lynn Cook Tu 2:00pm - 4:50pm	Seats (Total: 40) Location: TBA <i>Class meets at the Shady Grove Campus. Restricted to students in the School of Public Health. Permission of program director is required for all other UMCP undergraduate students to enroll.</i>
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STAT100**Elementary Statistics and Probability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR, FSMA

Prerequisite: MATH112, MATH110, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any MATH or STAT course with a prerequisite of MATH141. Credit only granted for: STAT100, MATH107 or MATH111.

Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.

0111	Susan Mazzullo MW 12:00pm - 12:50pm MWF 8:00am - 8:50am	Seats (Total: 29) ARM 0135 PHY 4206 Discussion
0112	Susan Mazzullo MW 12:00pm - 12:50pm MWF 9:00am - 9:50am	Seats (Total: 29) ARM 0135 PHY 4206 Discussion
0121	Susan Mazzullo MW 12:00pm - 12:50pm MWF 10:00am - 10:50am	Seats (Total: 29) ARM 0135 PHY 4206 Discussion
0122	Susan Mazzullo MW 12:00pm - 12:50pm MWF 11:00am - 11:50am	Seats (Total: 30) ARM 0135 PHY 4206 Discussion
0131	Susan Mazzullo MW 12:00pm - 12:50pm MWF 1:00pm - 1:50pm	Seats (Total: 30) ARM 0135 PHY 4206 Discussion
0132	Susan Mazzullo MW 12:00pm - 12:50pm MWF 2:00pm - 2:50pm	Seats (Total: 29) ARM 0135 PHY 4206 Discussion
0141	Susan Mazzullo MW 12:00pm - 12:50pm TuTh 9:30am - 10:45am	Seats (Total: 30) ARM 0135 PHY 4206 Discussion

0142	Susan Mazzullo MW 12:00pm - 12:50pm TuTh 11:00am - 12:15pm	Seats (Total: 31) ARM 0135 PHY 4206	Discussion
0211	Casey Cremins MW 1:00pm - 1:50pm MWF 8:00am - 8:50am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0212	Casey Cremins MW 1:00pm - 1:50pm MWF 9:00am - 9:50am	Seats (Total: 30) ARM 0135 PHY 4206	Discussion
0221	Casey Cremins MW 1:00pm - 1:50pm MWF 10:00am - 10:50am	Seats (Total: 29) ARM 0135 PHY 4206	Discussion
0222	Casey Cremins MW 1:00pm - 1:50pm MWF 11:00am - 11:50am	Seats (Total: 30) ARM 0135 PHY 4206	Discussion
0231	Casey Cremins MW 1:00pm - 1:50pm MWF 12:00pm - 12:50pm	Seats (Total: 30) ARM 0135 PHY 4206	Discussion
0232	Casey Cremins MW 1:00pm - 1:50pm MWF 2:00pm - 2:50pm	Seats (Total: 30) ARM 0135 PHY 4206	Discussion
0241	Casey Cremins MW 1:00pm - 1:50pm TuTh 9:30am - 10:45am	Seats (Total: 30) ARM 0135 PHY 4206	Discussion
0242	Casey Cremins MW 1:00pm - 1:50pm TuTh 11:00am - 12:15pm	Seats (Total: 30) ARM 0135 PHY 4206	Discussion

STAT386

(Perm req)

Experiential Learning

Credits: 3-6

Grading Method: Regular,
Pass-Fail

Prerequisite: Must have learning proposal approved by the CMNS-Mathematics Department.

2801	Abram Kagan	Seats (Total: 10)
	Contact instructor or department for details.	
5001	Paul Smith	Seats (Total: 10)
	Contact instructor or department for details.	

STAT400

Applied Probability and Statistics I

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Minimum grade of C- in MATH131; or MATH141; or students who have taken courses with comparable content may contact the department. Credit only granted for: BMGT231, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.

0111	Justin Wyss-Gallifent	Seats (Total: 27)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 8:00am - 9:15am	MTH 0104 Discussion
0112	Justin Wyss-Gallifent	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 8:00am - 9:15am	MTH B0429 Discussion
0121	Justin Wyss-Gallifent	Seats (Total: 27)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 9:30am - 10:45am	MTH 0104 Discussion
0122	Justin Wyss-Gallifent	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 9:30am - 10:45am	MTH B0429 Discussion
0131	Justin Wyss-Gallifent	Seats (Total: 29)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 12:30pm - 1:45pm	MTH 0303 Discussion
0132	Justin Wyss-Gallifent	Seats (Total: 28)
	MWF 1:00pm - 1:50pm	ARM 0126
	Tu 12:30pm - 1:45pm	MTH 0304 Discussion

0133	Justin Wyss-Gallifent MWF 1:00pm - 1:50pm Tu 12:30pm - 1:45pm	Seats (Total: 28) ARM 0126 MTH 1313	Discussion
0141	Justin Wyss-Gallifent MWF 1:00pm - 1:50pm Tu 2:00pm - 3:15pm	Seats (Total: 28) ARM 0126 MTH 0405	Discussion
0142	Justin Wyss-Gallifent MWF 1:00pm - 1:50pm Tu 2:00pm - 3:15pm	Seats (Total: 28) ARM 0126 MTH B0427	Discussion
0143	Justin Wyss-Gallifent MWF 1:00pm - 1:50pm Tu 2:00pm - 3:15pm	Seats (Total: 29) ARM 0126 MTH B0423	Discussion
0201	Natalia Tchetcherina MWF 11:00am - 11:50am	Seats (Total: 100) JMP 3201	
0301	Natalia Tchetcherina MWF 1:00pm - 1:50pm	Seats (Total: 35) MTH 0106	
0401	Terence Long MWF 3:00pm - 3:50pm	Seats (Total: 150) ARM 0126	
0501	Justin Wyss-Gallifent MWF 11:00am - 11:50am	Seats (Total: 26) MTH 0403	

STAT401

Applied Probability and Statistics II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.

Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.

0101	Yuan Liao TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0411
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0201	Takumi Saegusa MWF 1:00pm - 1:50pm	Seats (Total: 31) MTH 0201
0301	Susan Mazzullo TuTh 9:30am - 10:45am	Seats (Total: 31) MTH 0105
0401	Tingni Sun TuTh 11:00am - 12:15pm	Seats (Total: 29) CSS 2416

STAT410

Introduction to Probability Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Also offered as: SURV410. Credit only granted for: STAT410 or SURV410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.

0101	Mark Freidlin TuTh 2:00pm - 3:15pm	Seats (Total: 29) MTH 0306
0201	Leonid Korolov MWF 2:00pm - 2:50pm	Seats (Total: 28) MTH 0306
0301	Sandra Cerrai TuTh 11:00am - 12:15pm	Seats (Total: 30) CSI 3118
0401	Qiaoling Wei TuTh 9:30am - 10:45am	Seats (Total: 28) LEF 1201

STAT420

Introduction to Statistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (SURV410, STAT410). Also offered as: SURV420. Credit only granted for: STAT420 or SURV420.

Point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood. Confidence intervals for parameters of normal distribution. Hypothesis testing, most powerful tests, likelihood ratio tests. Chi-square tests, analysis of variance, regression, correlation. Nonparametric methods.

Offered Spring only.

0101	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 30) MTH 0409
0201	Joan Ren TuTh 9:30am - 10:45am	Seats (Total: 25) MTH 0305

STAT430 Introduction to Statistical Computing with SAS

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410).

Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.

0101	Benjamin Kedem MWF 12:00pm - 12:50pm	Seats (Total: 31) PLS 1119
0201	Susan Mazzullo TuTh 2:00pm - 3:15pm	Seats (Total: 30) MTH 0409
0301	Timothy Pilachowski MWF 12:00pm - 12:50pm	Seats (Total: 30) MTH 0101

STAT440 Sampling Theory

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (STAT401, STAT420). Credit only granted for: STAT440 or SURV440.

Simple random sampling. Sampling for proportions. Estimation of sample size. Sampling with varying probabilities. Sampling: stratified, systematic, cluster, double, sequential, incomplete.

0101	Natalia Tchetcherina MWF 3:00pm - 3:50pm	Seats (Total: 32) MTH 0306
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STAT464 Introduction to Biostatistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed one semester of calculus. Restriction: Junior standing or higher. Credit only granted for: BIOE372 or STAT464. Additional information: Not acceptable toward degrees in MATH/STAT.

Probabilistic models. Sampling. Some applications of probability in genetics. Experimental designs. Estimation of effects of treatments. Comparative experiments. Fisher-Irwin test. Wilcoxon tests for paired comparisons.

0101	Casey Cremins MWF 3:00pm - 3:50pm	Seats (Total: 25) MTH 0409
0201	Raluca Rosca MWF 1:00pm - 1:50pm	Seats (Total: 27) MTH 0304
SES1	Bradford Sanders W 6:00pm - 9:00pm <i>This section is restricted to students who enroll through the Science in the Evening program and may not be added on Testudo. Click here for complete program details including program eligibility information, tuition and fee information and registration instructions.</i>	Seats (Total: 20) MTH 1313

STAT470 Actuarial Mathematics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Recommended: STAT400.

Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.

0101	Steven Chadwick TuTh 2:00pm - 3:15pm	Seats (Total: 34) MTH B0421
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STAT498A Selected Topics in Statistics

(Perm req) Credits: 1-6 Grading Method: Regular,
Pass-Fail, Audit

Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.

Contact department for information to register for this course.

STAT601 Probability Theory II

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: STAT600.

Weak convergence of measures; characteristic functions; Central Limit Theorem and local limit theorem; stable laws; Kolmogorov consistency theorem (without proof); conditional expectations and martingales; optimal stopping theorem; convergence of martingales; Brownian motion; Markov processes and families; stochastic integral and Ito formula.

Offered Spring only.

0101	Sandra Cerrai	Seats (Total: 25)
	TuTh 2:00pm - 3:15pm	MTH 1308

STAT650 Applied Stochastic Processes

Credits: 3 Grading Method: Regular,
 Audit

Prerequisite: STAT410; or students who have taken courses with comparable content may contact the department.

Basic concepts of stochastic processes. Markov processes (discrete and continuous parameters), Random walks, Poisson processes, Birth and death processes. Renewal processes and basic limit theorems. Discrete time martingales, stopping times, optional sampling theorem. Applications from theories of stochastic epidemics, survival analysis and others.

0101	Eric Slud	Seats (Total: 20)
	MWF 9:00am - 9:50am	MTH 0405

STAT689 Research Interactions in Statistics

(Perm req) Credits: 1-3 Grading Method: Regular,
 Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

Contact department for information to register for this course.

STAT701**Mathematical Statistics II**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: STAT700; or students who have taken courses with comparable content may contact the department.

Testing hypotheses: parametric methods. Neyman-Pearson lemma. Uniformly most powerful tests. Unbiased tests. Locally optimal tests. Large sample theory, asymptotically best procedures. Nonparametric methods, Wilcoxon, Fisher-Yates, median tests. Linear models, analysis of variance, regression and correlation. Sequential analysis.

Offered Spring only.

0101	Benjamin Kedem	Seats (Total: 22)
	MWF 10:00am - 10:50am	MTH 1311

STAT741**Linear Statistical Models II**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: STAT740.

Continuation of STAT 740. Multiway layouts, incomplete designs, Latin squares, complete and fractional factorial designs, crossed and nested models. Balanced random effects models, mixed models, repeated measures. General mixed model, computational algorithms, ML and REML estimates. Generalized linear models, logistic and loglinear regression.

Offered Spring only.

0101	Paul Smith	Seats (Total: 20)
	MWF 2:00pm - 2:50pm	MTH 1308

STAT770**Analysis of Categorical Data**

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: STAT430 and STAT420; or permission of CMNS-Mathematics department.

Loglinear and logistic models. Single classification, two-way classification; contingency tables; tests of homogeneity and independence models, measures of association, distribution theory. Bayesian methods. Incomplete contingency tables. Square contingency tables - symmetry. Extensions to higher dimensional contingency tables.

0101	Joan Ren	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	MTH 0102

STAT799 Master's Thesis Research

Credits: 1-6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT808A Selected Topics in Probability

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT818A Selected Topics in Statistics

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics of current interest.

Contact department for information to register for this course.

STAT898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

STAT899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV Survey Methodology Spring 2016

SURV400 Fundamentals of Survey and Data Science

(Perm req) Credits: 3 Grading Method: Regular

Prerequisite: STAT100; or permission of BSOS-Joint Program in Survey Methodology department.
Restriction: Course open to SURV certificate students, SURV Advanced Special Students, and SURV undergraduate minors. Graduate students from other departments may enroll with permission from the department. Credit only granted for: SURV699M or SURV400. Formerly: SURV699M.

The course introduces the student to a set of principles of survey and data science that are the basis of standard practices in these fields. The course exposes the student to key terminology and concepts of collecting and analyzing data from surveys and other data sources to gain insights and to test hypotheses about the nature of human and social behavior and interaction. It will also present a framework that will allow the student to evaluate the influence of different error sources on the quality of data.

SVW1	Florian Keusch Meets February 29, 2016 - May 29, 2016 Th 12:00pm - 12:50pm Contact instructor or department for details. <i>This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.</i>	Seats (Total: 5) ONLINE
SVW2	Jennifer Sinibaldi Meets February 29, 2016 - May 29, 2016 W 2:00pm - 2:50pm Contact instructor or department for details. <i>This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.</i>	Seats (Total: 10) ONLINE

SURV410

Introduction to Probability Theory

Credits: 3 Grading Method: Regular,
 Pass-Fail, Audit

Prerequisite: MATH240 and MATH241; or permission of BSOS-Joint Program in Survey Methodology department. Also offered as: STAT410. Credit only granted for: SURV410 or STAT410.

Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments, characteristic functions, and limit theorems.

0101	Mark Freidlin TuTh 2:00pm - 3:15pm	Seats (Total: 29) MTH 0306
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0201	Leonid Koralov MWF 2:00pm - 2:50pm	Seats (Total: 28) MTH 0306
0301	Sandra Cerrai TuTh 11:00am - 12:15pm	Seats (Total: 30) CSI 3118

SURV420
Introduction to Statistics

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: SURV410 or STAT410. Also offered as: STAT420. Credit only granted for: STAT420 or SURV420.

Mathematical statistics, presenting point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood, confidence intervals for parameters of normal distributions, chi-square tests, analysis of variance, regression, correlation, and nonparametric methods.

0101	Jian Lun Xu TuTh 5:00pm - 6:15pm	Seats (Total: 30) MTH 0409
0201	Joan Ren TuTh 9:30am - 10:45am	Seats (Total: 25) MTH 0305

SURV440
Sampling Theory

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: STAT401 or STAT420. Credit only granted for: STAT440 or SURV440.

Simple random sampling, sampling for proportions, estimation of sample size, sampling with varying probabilities of selection, stratification, systematic selection, cluster sampling, double sampling, and sequential sampling.

0101	Michael Elliott Meets January 5, 2016 - April 19, 2016 MW 8:30am - 10:00am	Seats (Total: 15) LEF 1208
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SVW1	Richard Valliant	Seats (Total: 15)
Meets February 29, 2016 - May 29, 2016		
Th 10:00am - 10:50am		ONLINE
Contact instructor or department for details.		
<i>This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. Video recorded lectures taught by Dr. James Lepkowski. Live online sessions taught by Dr. Richard Valliant. To apply for permission to enroll email jpsm-contact@umd.edu.</i>		

SURV616

Statistical Methods II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: SURV615.

Builds on the introduction to linear models and data analysis provided in Statistical Methods I. Topics include analysis of longitudinal data and time series, categorical data analysis and contingency tables, logistic regression, log-linear models for counts, statistical methods in epidemiology, and introductory life testing.

0101	James Wagner	Seats (Total: 20)
Meets January 5, 2016 - April 21, 2016		
F 12:30pm - 3:15pm		LEF 1208

SURV625

Applied Sampling

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: Must have completed a course in statistics approved by department.

Practical aspects of sample design. Topics include: probability sampling (including simple random, systematic, stratified, clustered, multistage and two-phase sampling methods), sampling with probabilities proportional to size, area sampling, telephone sampling, ratio estimation, sampling error estimation, frame problems, nonresponse, and cost factors.

0101	James Lepkowski	Seats (Total: 15)
Meets January 5, 2016 - April 21, 2016		
W 1:00pm - 4:00pm		LEF 1208

SV01	James Lepkowski	Seats (Total: 15)
	Meets January 5, 2016 - April 21, 2016	
	W 1:00pm - 4:00pm	Location: TBA
	<i>Class meets at the Census Bureau in Suitland, MD in T10. This section is open to Census Bureau employees only.</i>	

SURV630

Questionnaire Design and Evaluation

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: SURV430 and SURV630.

The stages of questionnaire design; developmental interviewing, question writing, question evaluation, pretesting, and questionnaire ordering and formatting. Reviews of the literature on questionnaire construction, the experimental literature on question effects, and the psychological literature on information processing. Examination of the diverse challenges posed by self versus proxy reporting and special attention is paid to the relationship between mode of administration and questionnaire design.

0101	Ting Yan	Seats (Total: 15)
	Meets January 11, 2016 - May 11, 2016	
	Tu 1:00pm - 4:00pm	LEF 1208
SVW1	Florian Keusch	Seats (Total: 15)
	Meets December 1, 2015 - February 28, 2016	
	Th 12:00pm - 12:50pm	ONLINE
	<i>Students must be able to begin coursework on December 1. The coursework will conclude on February 28. "</i>	

SURV640

Survey Practicum I

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in one of the following programs (Survey Methodology (Doctoral); Survey Methodology (Master's)) ; or permission of instructor. Credit only granted for: SURV620 or SURV640. Formerly: SURV620. Additional information: SURV640 and SURV641 must be taken in consecutive semesters.

First part of an applied workshop in sample survey design, implementation, and analysis. Problems of moving from substantive concepts to questions on a survey questionnaire, designing a sample, pretesting and administering the survey.

0101	Katharine Abraham	Seats (Total: 15)
Meets January 26, 2016 - May 10, 2016		
	W 4:00pm - 6:00pm	LEF 1208

SURV662 An Introduction to Small Area Estimation Methods

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: STAT400; and permission of instructor; and STAT401. Restriction: Permission of instructor.

There is a growing demand to produce reliable estimates of various socio-economic and health characteristics at both national and sub-national levels. However, data availability at the sub-national (small area) level from a survey is often limited by cost and thus analysts must make the best possible use of all available information. The course will begin with a history of small-area estimation and different uses of small-area statistics in both public and private sectors. This course will provide an introduction to the main concepts and issues in small estimation and describes various approaches for estimating different small area parameters. Topics include standard design-based methods, various traditional indirect methods and the state-of-the-art small-area estimation methods that use both Bayesian and empirical best prediction methods. Monte Carlo simulation results and data analysis using available statistical software will be presented.

SVW1	Partha Lahiri	Seats (Total: 15)
Meets February 29, 2016 - May 29, 2016		
	Th 11:00am - 11:50am	ONLINE
Contact instructor or department for details.		
<i>This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.</i>		

SURV699 Special Topics in Survey Methodology; Readings in Survey Methodology

(Perm req)

Credits: 1-4 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Yan Li	Seats (Total: 10)
Contact instructor or department for details.		

0301	Robert Croninger	Seats (Total: 10)
Meets January 25, 2016 - April 19, 2016		
Contact instructor or department for details.		
0401	Richard Valliant	Seats (Total: 5)
Meets January 25, 2016 - April 19, 2016		
Contact instructor or department for details.		

SURV699G Special Topics in Survey Methodology; Envisioning the Survey Interview of the Future

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Frederick Conrad	Seats (Total: 5)
	W 2:00pm - 4:30pm	LEF 1218

SURV699X Special Topics in Survey Methodology; Statistical Data Integration

Credits: 3 Grading Method: Regular,
Audit

Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.

0101	Partha Lahiri	Seats (Total: 10)
	F 3:00pm - 5:30pm	LEF 2208

SURV721 Total Survey Quality II

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Prerequisite: SURV720. Restriction: Permission of instructor. Credit only granted for: (SURV720 and SURV721) or SURV723. Formerly: SURV723.

Second part of a review of total survey error structure of sample survey data. Reviewing current research findings on the magnitudes of different error sources. Students will continue work on an independent research project which provides empirical investigation of one or more error source. An analysis paper presenting findings of the project will be submitted at the end of the course.

0101	Andrey Peytchev	Seats (Total: 20)
	Meets January 5, 2016 - April 20, 2016	
	Th 9:00am - 11:30am	LEF 1208

SURV735 Data Confidentiality and Statistical Disclosure Control

(Perm req)

Credits: 2 Grading Method: Regular,
Audit

Prerequisite: Must have familiarity with the statistical software R; and must have completed a basic statistics course in regression modeling. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.

This course will provide a gentle introduction to statistical disclosure control with a focus on generating synthetic data for maintaining the confidentiality of the survey respondents. The first part of the course will introduce several traditional approaches for data protection that are widely used at statistical agencies. Some limitations of these approaches will also be discussed. The second part of the course will introduce synthetic data as a possible alternative. This part of the course will discuss different approaches to generating synthetic datasets in detail. Possible modeling strategies and analytical validity evaluations will be assessed and potential measures to quantify the remaining risk of disclosure will be presented. To provide the participants with hands on experience, all steps will be illustrated using simulated and real data examples in R.

SVW1	Jorg Drechsler	Seats (Total: 12)
	Meets April 4, 2016 - May 30, 2016	
	M 11:00am - 11:50am	ONLINE
	Contact instructor or department for details.	
	<i>This online section is a condensed version of the on-site section. The material covered and workload are comparable. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. To apply for permission to enroll email jpsm-contact@umd.edu.</i>	

SURV742 Inference from Complex Surveys

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: SURV440.

Inference from complex sample survey data covering the theoretical and empirical properties of various variance estimation strategies (e.g., Taylor series approximation, replicated methods, and bootstrap methods for complex sample designs). Incorporation of those methods into inference for complex sample survey data. Variance estimation procedures applied to descriptive estimators and to analysis of categorical data. Generalized variances and design effects presented. Methods of model-based inference for complex sample surveys examined, and results contrasted to the design-based type of inference used as the standard in the course. Real survey data illustrating the methods discussed. Students will learn the use of computer software that takes account of the sample design in estimation.

0101	Robert Fay	Seats (Total: 20)
Meets January 11, 2016 - April 19, 2016		
	Tu 2:00pm - 3:30pm	LEF 1218

SURV744 Topics in Survey Methodology

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: SURV440.

Advanced course in survey sampling theory.

0101	Yan Li	Seats (Total: 15)
Meets January 5, 2016 - April 21, 2016		
	Th 3:00pm - 5:40pm	LEF 1208

SURV751 Introduction to Big Data and Machine Learning

(Perm req)

Credits: 1 Grading Method: Regular,
Audit

Prerequisite: Permission of BSOS-Joint Program in Survey Methodology department. Restriction: Permission of BSOS-Joint Program in Survey Methodology department. Additional information: The course is aimed equally at researchers from academia, government and the voluntary and private sector and is appropriate for researchers new to this topic who have some familiarity with survey research concepts such as responsive/tailored survey designs, measurement error, nonresponse bias and data linkage. Familiarity with model building and model selection as well as the R program is not required but could also be helpful. Students without prior knowledge in R should plan on using free online resources to make themselves familiar with the basics of this statistical programming language.

The amount of data generated as a by-product in society is growing fast including data from satellites, sensors, transactions, social media and smartphones, just to name a few. Such data are often referred to as "big data", and can be used to create value in different areas such as health and crime prevention, commerce and fraud detection. Big Data are often used for prediction and classification tasks. Both of which can be tackled with machine learning techniques. In this course we explore how Big Data concepts, processes and methods can be used within the context of Survey Research. Throughout this course we will illustrate key concepts using specific survey research examples including tailored survey designs and nonresponse adjustments and evaluation. This course will offer participants: an overview of key Big Data terminology and concepts, an introduction to common data generating processes, a discussion of some primary issues with linking Big Data with Survey Data, issues of coverage and measurement errors within the Big Data context, a discussion of information extraction and signal detection in the context of Big Data, a discussion of the similarities and differences in model building for inference versus prediction, an overview of general concepts from machine learning as they apply to processing Big Data, a discussion of signal detection and information extraction, a discussion of the potential pitfalls for inference from Big Data, an introduction to a small set of key analytic techniques (e.g. classification trees, random forests, conditional forests) to process Big Data using R with example code provided

SVW1	Frauke Kreuter	Seats (Total: 15)
	Meets February 1, 2016 - February 28, 2016	
	Tu 6:00pm - 6:50pm	ONLINE

SURV760

Survey Management

Credits: 3 Grading Method: Regular,
Audit

Modern practices in the administration of large scale surveys. Alternative management structures for large field organizations, supervisory and training regimens, handling of turnover, and multiple surveys with the same staff. Practical issues in budgeting of surveys are reviewed with examples from actual surveys. Scheduling of sequential activities in the design, data collection, and processing of data is described.

0101	Steven Heeringa	Seats (Total: 20)
	Meets January 11, 2016 - May 11, 2016	
	M 1:30pm - 4:00pm	LEF 1208
	<i>Course open to JPSM students only and students from other departments will need permission to register.</i>	

SURV772

Survey Design Seminar

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: (SURV770 and SURV771) or SURV772. Formerly: SURV770 and SURV771.

Students present solutions to design issues presented to the seminar. Readings are selected from literatures not treated in other classes and practical consulting problems are addressed.

0101	Stanley Presser	Seats (Total: 10)
Meets January 26, 2016 - May 11, 2016		
	W 3:00pm - 5:45pm	LEF 1221

SURV829 Doctoral Research Seminar in Survey Methodology

(Perm req)

Credits: 3-6 Grading Method: Regular

An advanced research seminar for students preparing to do research or take doctoral comprehensive examinations.

0101	Frauke Kreuter	Seats (Total: 10)
Meets January 5, 2016 - April 21, 2016		
	W 10:00am - 12:30pm	LEF 1218

SURV898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

SURV899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

TDPS Theatre, Dance and Performance Studies

Spring 2016

TDPS201 Introduction to Technical Production

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within ARHU-Dance department; or must be in a major within ARHU-Theatre department. Credit only granted for: DANC210 and THET114 or TDPS201. Formerly: DANC210 and THET114.

Students are provided with an overview of topics related to the technical production of theatre and dance including: scenic, prop and costume construction, lighting, sound and video execution and management structures.

Students must pay \$25 lab fee.

TD01	Cate Barger	Seats (Total: 30)	
	MW 4:00pm - 4:50pm	PAC 1815	
	F 3:30pm - 5:30pm	PAC 1702	Lab

TDPS358V Special Topics in Intermediate Performing Arts; Archival Video and Camera Techniques

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Designed for performing arts students. Offers instruction at the intermediate level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay a \$25 lab fee.

TD01	Paul Jackson	Seats (Total: 12)	
	MW 9:00am - 10:15am	PAC 1610	

TDPS458D Special Topics in Advanced Performing Arts; Production Management

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Students must pay \$25 lab fee.

TD01	Cary Gillett	Seats (Total: 15)	
	MW 1:00pm - 2:15pm	PAC 1809	

TDPS458F Special Topics in Advanced Performing Arts; Puppet Cinema: When Film and Puppetry Meet on Stage

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

TD01	Zvi Sahar	Seats (Total: 6)
	MW 3:00pm - 4:45pm	PAC 2740

TDPS458J Special Topics in Advanced Performing Arts; Essence, Identity, and Empowerment through the Arts: A Project for High Point High School

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

This course will focus on arts practices (dance, drama, music, visual and media arts) that develop habits of mind, heart, and body/spirit in young people, ages 14-25. The University of Maryland students will develop these skills in themselves and apply them to high school students in a local, challenged community, High Point High School.

0101	Karen Bradley	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	PAC 1611

TDPS469 Advanced Practicum in Stage Management

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

A graded course in stage management for theatre and/or dance productions. A hands-on laboratory experience.

0101	Cary Gillett	Seats (Total: 10)
	Contact instructor or department for details.	

TDPS479 Production Practicum

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

A graded course in a specified practical aspect of mounting a theatre or dance production. It is a hands-on, purely laboratory experience.

Prerequisite: TDPS201. Formerly THET479. A specified practical aspect of mounting a theatre or dance production with hands-on, laboratory experience.

1001	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	

1002	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
1003	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
1004	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
1005	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
1006	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
1007	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2001	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2002	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2003	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2004	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2005	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	
2006	Cate Barger	Seats (Total: 15)
	Contact instructor or department for details.	

THET

Theatre

Spring 2016

THET110

Introduction to the Theatre

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

CORE: HA

General Education: DSHU

In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.

0101	Korey Rothman MW 10:00am - 10:50am W 2:00pm - 2:50pm	Seats (Total: 24) ARC 0204 ASY 3219	Discussion
0102	Korey Rothman MW 10:00am - 10:50am W 3:00pm - 3:50pm	Seats (Total: 24) ARC 0204 EDU 3233	Discussion
0103	Korey Rothman MW 10:00am - 10:50am W 11:00am - 11:50am	Seats (Total: 24) ARC 0204 ASY 3221	Discussion
0104	Korey Rothman MW 10:00am - 10:50am W 12:00pm - 12:50pm	Seats (Total: 24) ARC 0204 TWS 1313	Discussion
0105	Korey Rothman MW 10:00am - 10:50am W 1:00pm - 1:50pm	Seats (Total: 24) ARC 0204 PLS 1115	Discussion
0201	Korey Rothman MW 11:00am - 11:50am W 2:00pm - 2:50pm	Seats (Total: 24) ARC 0204 JMZ 1124	Discussion
0202	Korey Rothman MW 11:00am - 11:50am W 3:00pm - 3:50pm	Seats (Total: 24) ARC 0204 TWS 1321	Discussion
0203	Korey Rothman MW 11:00am - 11:50am W 1:00pm - 1:50pm	Seats (Total: 24) ARC 0204 HBK 0123	Discussion
0204	Korey Rothman MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 24) ARC 0204 TWS 1321	Discussion

0205	Korey Rothman	Seats (Total: 24)	
	MW 11:00am - 11:50am	ARC 0204	
	W 1:00pm - 1:50pm	TWS 1106	Discussion

THET116 Fundamentals of Theatrical Design

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Examines theatre as an environmental art that is realized through collaboration between set, costume, and lighting designers.

Students must pay \$25 lab fee.

TD01	Tyler Gunther, April Vester	Seats (Total: 20)	
	TuTh 1:00pm - 2:50pm	PAC 2733	Lab

THET222 Foundations of Acting and Performance

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Students will become familiar with the tools and process of acting through the discipline of acting exercises, analyzing character and performing. Students will research various theatre artists that have contributed to the acting process. Through monologue and scene work students will learn listening skills, communicative, collaborative and embodiment skills and will learn how to use the self in the imaginative process and research. And, most importantly, students will learn creative process through practice.

Students must pay \$25 lab fee.

TD02	Jennifer Barclay Newsham	Seats (Total: 16)	
	TuTh 10:00am - 11:50am	PAC 3732	Lab

THET223 Text and Context in Western Theatre

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Introduction to the analysis and critique of the play script. Students will have the opportunity to read, analyze, and interpret western dramatic literature from a range of periods and styles. Texts are analyzed from a variety of theatrical analytical perspectives, with an eye towards choices theatre artists must make in the creation of a theatrical production.

0101	Laronika Thomas	Seats (Total: 15)
	MW 10:00am - 11:15am	PAC 1815

THET228C

Special Topics in Introduction Theatre and Performance; Stagecraft

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

This course is offered as part of the TDPS Artist-in-Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Pre-Req:TDPS201. This course will explore the basic principles of stage construction. Through class lectures and hands-on participation, students will learn the terminology, materials, and best practices used used in the planning, construction, rigging, and operation of scenic and rigging elements. This course will also meet for 1 hour and 50 minutes a week in the Clarice shops, to be arranged with each student individually by the instructor. Students must pay a \$25.00 lab fee.

0101	Mark Rapach	Seats (Total: 12)
	Th 9:00am - 10:50am	PAC 1815

THET269M

Special Topics in Study Abroad II; Meaning of Style

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269N

Special Topics in Study Abroad II; Naturalism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET269T

Special Topics in Study Abroad II; 20th Century and Contemporary Spanish Theater

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET285 The Art of Communication and Presentation

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

0101	Jennifer Ring	Seats (Total: 25)
	MW 1:00pm - 2:50pm	PAC 3736
0103	Daniel Dilliplane	Seats (Total: 25)
	MW 10:00am - 11:50am	PAC 3736

THET289I Subversive Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SH General Education: DSHS,
SCIS

Also offered as ANTH298I. Credit granted for THET289I and ANTH298I. Every society has rebels those who refuse to conform to the mainstreams rigid rules, aesthetics, and beliefs. We will question why these individuals or groups are considered dangerous, and who defines them as such. We will look at how their beliefs and actions fit into a particular socio-historical context, and how their actions (or non-actions) drive social change.

0101	Laurie Frederik Meer	Seats (Total: 60)
	MW 2:00pm - 3:15pm	TYD 0117

THET291 American Theatre 1890-Present

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HA General Education: DSHU

Traces the evolution of the American theatre during the twentieth century, aligning this theatre with the major shifts and movements of American society itself, and arriving at the uniquely American theatre and culture of today.

0101	Allan Davis	Seats (Total: 25)
	MW 11:00am - 11:50am	TYD 1102
	W 12:00pm - 12:50pm	ASY 3215 Discussion

0102	Allan Davis	Seats (Total: 25)	
	MW 11:00am - 11:50am	TYD 1102	
	W 1:00pm - 1:50pm	ASY 3211	Discussion

THET299L Independent Study; Analyzing Performances

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers; scenic, lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET299Z Independent Study; Issues of Realism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers; scenic, lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET310 Voice for the Actor I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET116, THET222, THET223, and TDPS201; and must Interview; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.

Freeing the natural voice. In-depth experience of connection of actor's voice to thought, impulse and emotion. Tools for releasing tension, increasing resonance and range, and refining articulation will be explored.

Students must pay \$25 lab fee.

TD01	Mary Coy	Seats (Total: 12)	
	TuTh 12:30pm - 2:20pm	PAC 3736	Lab

THET325 Actor's Process I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in THET310; or permission of Instructor. And must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Focus on use of self in creating character. Tools employed include decision-making and use of imagery, personalization, objectives, adjectives, and verbs.

Students must pay \$25 lab fee.

TD01	Mitchell Hebert	Seats (Total: 12)	
	M 2:00pm - 4:50pm	PAC 3732	Lab

THET328O Special Topics in Intermediate Theatre and Performance; Solo Performance

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Over the course of the semester explore, research and create a solo performance show. THET222 required pre-req, Students must pay a \$25 lab fee.

TD01	Mitchell Hebert	Seats (Total: 12)	
	M 9:00am - 11:50am	PAC 3710	

THET328P Special Topics in Intermediate Theatre and Performance; Advanced Lighting Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Students must pay a \$25 lab fee.

TD01	Max Doolittle	Seats (Total: 8)	
	TuTh 1:30pm - 3:30pm	PAC 3731	

THET328V Special Topics in Intermediate Theatre and Performance; Viewpoints

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.

Prerequisites: THET222, THET223, THET116, and TDPS201. Students must pay \$25 lab fee.

TD01	Jennifer Barclay Newsham	Seats (Total: 18)
	MW 10:00am - 11:50am	PAC 2740

THET369X Special Topics in Study Abroad III; Fourth-Year French II

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

THET377 Lighting Design I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

A study of the theories of electrification, instruments, design, color, and control for the stage. Practical work on productions.

Students must pay \$25 lab fee.

TD01	Connor Dreibelbis	Seats (Total: 10)
	MW 10:00am - 11:50am	PAC 2733 Lab

THET383 Costume Design I

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: TDPS201 or THET114; and (THET116, THET222, and THET223). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Basic principles of theatre costume design and introduction to rendering skills. Emphasis on development of design conception, unity, character statement, basic clothing design and period style adaptation.

Students must pay a \$25 lab fee.

TD01	Helen Huang	Seats (Total: 8)
	Tu 2:00pm - 4:30pm	PAC 2755

THET386 Experiential Learning

(Perm req)

Credits: 3-6 Grading Method: Regular,
Pass-Fail

Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Contact department for information to register for this course.

THET399 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399F Independent Study; Modern British Theater

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399H Independent Study; London Stage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399L Independent Study; Contemporary British Drama

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET399X Independent Study; The London Stage

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.

Contact department for information to register for this course.

THET408D Seminar: Theory and Performance Studies; Dramaturgy

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

0101	Faendra Carpenter	Seats (Total: 10)
	MW 11:00am - 12:15pm	PAC 1809

THET408N Seminar: Theory and Performance Studies; Post 9/11 Theatre

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Studies in theatre theory and performance studies from classical antiquity to the present.

0101	James Harding	Seats (Total: 20)
	TuTh 2:00pm - 3:15pm	PAC 1815

THET428D Special Topics in Advanced Theatre and Performance; Advanced Media Design

(Perm req)

Credits: 3 Grading Method: Regular

This course is offered as part of the School of Theatre, Dance, and Performance Studies' Artist in Residence program. Topics covered may include: Intercultural Theatre; Performance Art; Puppetry; Solo Performance; or Theatrical Design.

Also offered as THET669D. Credit granted for THET428D or THET669D. Students must pay \$25 lab fee.

TD01	Jared Mezzocchi	Seats (Total: 8)
	TuTh 10:30am - 12:30pm	PAC 2727 Lab

THET429 Actor's Studio

(Perm req)

Credits: 1-3

Grading Method: Regular,
Pass-Fail

Participation in dramatic roles executed under faculty supervision in the department's productions. Eligible students must make commitments and plan performances with course instructor during pre-registration.

Contact department for information to register for this course.

THET430

Directing II: Working with Actors

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET330; and (THET324 or THET325); and must Audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.

Discussion of the preparation procedures and rehearsal practices necessary for the presentation of a variety of theatrical styles and forms. Emphasis on understanding the relationship between the director, the actor, the script and the audience. A series of student directed scenes supplemented by attendance at theatre productions.

Students must pay \$25 lab fee.

TD01	Mitchell Hebert	Seats (Total: 12)	
	F 9:00am - 11:50am	PAC 2740	Lab

THET440

Advanced Playwriting

Credits: 3

Grading Method: Regular,
Audit

Prerequisite: THET340; or permission of instructor. And permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET440 or THET499P. Formerly: THET499P.

Ensemble-based writer's workshop. It is the second part of a two-course sequence and is designed for students who already have a foundation in the basics of playwriting or who are otherwise well-versed in the art of theatre and dramatic structure. Through exploratory writing sequences, the reading of full-length plays, and in-class readings of work-in-progress, students will continue to deepen their craft and develop the script for a new full-length play.

Students must pay \$25 lab fee.

TD01	Jennifer Barclay Newsham	Seats (Total: 12)	
	MW 2:00pm - 3:50pm	PAC 1815	

THET452**Musical Theatre Workshop II**

(Perm req)

Credits: 3 Grading Method: Regular

Prerequisite: Must audition. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.

Development of the ability to move, act and express through the media of lyric and music from the integrated musicals of the 1960s through the development of concert and rock/pop musicals.

Students must pay \$25 lab fee.

TD01	Scot Reese	Seats (Total: 16)	
	Th 1:30pm - 4:30pm	PAC 2740	Lab

THET465**History of Fashion for the Theatre**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET116; or permission of instructor. Restriction: Sophomore standing or higher.

A survey of Western clothing from the Ancient Worlds through 20th Century. A discussion of the cultural contexts of various trends in fashion through an examination of art, industry and textiles.

Also offered as THET669A. Credit granted for THET465 or THET669A. Email Misha Kachman for permission to register at mkachman@umd.edu. Students must pay \$25 lab fee.

TD01	Mikhail Kachman	Seats (Total: 15)	
	TuTh 3:30pm - 4:45pm	PAC 2733	

THET471**Design Studio in Scenery**

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET371; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Also offered as: THET639. Credit only granted for: THET471 or THET639.

Advanced study of scenic design for the theatre. Particular design projects will vary.

Students must pay \$25 lab fee.

TD01	Daniel Conway	Seats (Total: 4)	
	MW 10:00am - 11:50am	PAC 2755	Lab

THET472**Scene Painting**

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET114 or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Scene painting techniques and materials. Three-dimensional realistic scenery and non-realistic two-dimensional projects.

Students must pay a \$25 lab fee.

TD01	Ann Chismar	Seats (Total: 8)
	F 10:00am - 1:50pm	PAC 1702

THET477

Design Studio in Lighting

(Perm req)

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: THET377; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Also offered as: THET659. Credit only granted for: THET477 or THET659.

Designed for students who have successfully completed THET377 and wish to further develop their lighting design skills. Emphasis is on theoretical design of productions and realized light lab projects. Particular design projects will vary.

Students must pay \$25 lab fee.

TD01	Andrew Cissna	Seats (Total: 8)
	M 1:00pm - 4:00pm	PAC 2727 Lab

THET489P

Special Topics in Theatre History from 1800 to Present; History of Shakespeare in Performance

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit

Topics in the history of world theatre and performance from 1800 to present.

0101	Franklin Hildy	Seats (Total: 15)
	TuTh 11:00am - 12:15pm	PAC 1815

THET497

Non-Traditional Theatre

Credits: 3

Grading Method: Regular,
Pass-Fail, Audit , D

Seminar exploring American and European experimental performance since 1960. Topics include experimental theatre, performance art, pornography and performance, gender and performance, and popular culture and performance. Topics are treated historically and theoretically. Student-produced performance projects are an important component of the seminar.

Contact department for information to register for this course.

THET499

Independent Study

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

0201	Franklin Hildy	Seats (Total: 5)
	Contact instructor or department for details.	
0301	Leigh Smiley	Seats (Total: 5)
	Contact instructor or department for details.	
0401	Scot Reese	Seats (Total: 5)
	Contact instructor or department for details.	
0501	Esther Lee	Seats (Total: 5)
	Contact instructor or department for details.	
0601	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	
0701	Jennifer Barclay Newsham	Seats (Total: 5)
	Contact instructor or department for details.	
0801	Leslie Felbain	Seats (Total: 5)
	Contact instructor or department for details.	
0901	Mitchell Hebert	Seats (Total: 5)
	Contact instructor or department for details.	
1101	Mikhail Kachman	Seats (Total: 5)
	Contact instructor or department for details.	
1301	Brian MacDevitt	Seats (Total: 5)
	Contact instructor or department for details.	

1401	Andrew Cissna	Seats (Total: 5)
	Contact instructor or department for details.	
1501	Instructor: TBA	Seats (Total: 5)
	Contact instructor or department for details.	
1601	Daniel Conway	Seats (Total: 5)
	Contact instructor or department for details.	
1701	Helen Huang	Seats (Total: 5)
	Contact instructor or department for details.	
1801	Mark Rapach	Seats (Total: 5)
	Contact instructor or department for details.	
2001	Faendra Carpenter	Seats (Total: 5)
	Contact instructor or department for details.	
2003	Cary Gillett	Seats (Total: 5)
	Contact instructor or department for details.	
2005	Laurie Frederik Meer	Seats (Total: 5)
	Contact instructor or department for details.	
2007	Jared Mezzocchi	Seats (Total: 5)
	Contact instructor or department for details.	

THET499G Independent Study; Realism and Theater Naturalism

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET499Q Independent Study; Theatrical Forms and Genres

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET499R **Independent Study; Issues of Realism**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET499Y **Independent Study; The London Stage**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET499Z **Independent Study; The London Stage**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

Contact department for information to register for this course.

THET608N **Seminar: Theory and Performance Studies; Post 9/11 Theatre**

Credits: 3 Grading Method: Regular,
Audit

A repeatable seminar on special topics in theory of the Theatre and Performance Studies.

0101	James Harding	Seats (Total: 10)
	Th 4:00pm - 6:30pm	PAC 1815

THET639 **Advanced Design Studio in Scenery**

Credits: 3 Grading Method: Regular,
Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay a \$25 course fee.

TD01	Mikhail Kachman	Seats (Total: 8)
	W 1:00pm - 3:50pm	PAC 2755

THET649 Advanced Design Studio in Costume

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

A series of carefully and individually structured assignments and projects that allows students to progress in their design training.

Students must pay \$25 lab fee.

TD01	Helen Huang	Seats (Total: 4)
	TuTh 10:00am - 11:50am	PAC 2733

THET659 Advanced Design Studio in Lighting

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.

Students must pay \$25 lab fee.

TD01	Andrew Cissna	Seats (Total: 4)
	M 1:00pm - 4:00pm	PAC 2727

THET669 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Audit

Contact department for information to register for this course.

THET669A Independent Study; History of Fashion for the Theatre

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Students must pay \$25 lab fee.

TD01	Mikhail Kachman	Seats (Total: 15)
	TuTh 3:30pm - 4:45pm	PAC 2733

THET669D Independent Study; Advanced Media Design

Credits: 3 Grading Method: Regular,
 Audit

Also offered as THET428D. Credit granted for THET428D or THET669D. Students must pay \$25 lab fee.

TD01	Jared Mezzocchi	Seats (Total: 8)	
	TuTh 10:30am - 12:30pm	PAC 2727	Lab

THET669M Independent Study; Advanced Media II: Public Projections

(Perm req) Grading Method: Regular,
Credits: 1-3 Audit

Students must pay a \$25 lab fee.

TD01	Jared Mezzocchi	Seats (Total: 8)	
	F 9:00am - 12:00pm	PAC 2727	

THET672 Theory of Visual Design in Scenery

Credits: 3 Grading Method: Regular,
 Audit

A historical and theoretical study of design practices in performing arts with an emphasis in scene design and interpretation.

Students must pay \$25 lab fee.

TD01	Daniel Conway	Seats (Total: 4)	
	MW 10:00am - 11:50am	PAC 2755	Lab

THET678 Theory of Visual Design For the Performing Arts

(Perm req) Grading Method: Regular,
Credits: 3 Audit

A historical and theoretical study of design practices in the performing arts.

Students must pay \$25 lab fee.

TD01	Aaron Posner	Seats (Total: 6)	
	Tu 9:00am - 11:50am	PAC 2755	Lab

TD16	Daniel Conway	Seats (Total: 6)	
	Tu 9:00am - 11:50am	PAC 2755	Lab

THET698J Seminar: Theatre History; Theatre History to 1700

Credits: 3 Grading Method: Regular,
Audit

Studies in theatre history from classical antiquity to the present.

0101	Franklin Hildy	Seats (Total: 10)	
	W 4:00pm - 6:30pm	PAC 1809	

THET712 Historical Research Methods and Historiography in Theatre

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: THET700. Formerly: PCOM712.

A survey of methods commonly used in writing theatre history and their application to a suitable problem. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.

0101	Esther Lee	Seats (Total: 10)	
	TuTh 11:00am - 12:15pm	PAC 1809	

THET788 Master's Tutorial

(Perm req)

Credits: 1-6 Grading Method: Regular,
Audit

Collaboration with a faculty member on joint creative and artistic projects.

Contact department for information to register for this course.

THET789 Master's Practicum

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Participation in creative and artistic activities with professional level theatrical organizations.

Contact department for information to register for this course.

THET799 Master's Thesis Research

(Perm req) Credits: 1-6 Grading Method: Regular
Contact department for information to register for this course.

THET888 Doctoral Practicum in Theatre

(Perm req) Credits: 3-9 Grading Method: Regular

Critical analysis of a phase of a professional field of theatre. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.

Contact department for information to register for this course.

THET889 Doctoral Tutorial in Theatre

(Perm req) Credits: 3-8 Grading Method: Regular

Individual research in theatre.

Contact department for information to register for this course.

THET898 Pre-Candidacy Research

(Perm req) Credits: 1-8 Grading Method: Regular, Sat-Fail

Contact department for information to register for this course.

THET899 Doctoral Dissertation Research

(Perm req) Credits: 6 Grading Method: Regular, Audit

Contact department for information to register for this course.

TLPL Teaching and Learning, Policy and Leadership

Spring 2016

TLPL101 Inquiry Teaching of STEM in Elementary School

Credits: 1 Grading Method: Regular

Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three-hour block of time during the local elementary school operational hours from 7:45 am to 3:15 pm. A background check is required.

Exploration of teaching science or mathematics as a career. Discussions include standards-based lesson design and various teaching strategies. Fieldwork consists of observing, planning and teaching inquiry-based lessons to students in grades three to six in local elementary schools.

0101	Catherine VanNetta M 2:30pm - 3:50pm	Seats (Total: 22) PHY 1108
0201	Sarah Henson-Darko M 4:00pm - 5:20pm	Seats (Total: 22) PHY 1108
0301	Catherine VanNetta Tu 2:30pm - 3:50pm	Seats (Total: 22) PHY 1108
0401	Catherine VanNetta Tu 4:00pm - 5:20pm	Seats (Total: 22) PHY 1108

TLPL102 Inquiry Teaching of STEM in Middle School

Credits: 2 Grading Method: Regular

Prerequisite: Must have completed TLPL101. Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three hour block of time during the local middle school operational hours from 7:45 am to 3:15 pm. A background check is required.

Second course in the Terrapin Teachers teacher preparation sequence. Students gain field experience and continue exploring teaching as a career by conducting teacher observations, and planning and implementing lessons in local, high-need middle school classrooms. Students work closely with UM master teachers to build upon the inquiry-based teaching practices developed in TLPL 101. Students work with mathematics and science curricula while attending to state and district standards, in order to develop and enact lessons that are responsive to students' reasoning in math and science.

0101	Anita Sanyal W 4:00pm - 5:50pm	Seats (Total: 23) PHY 1108
0201	Sarah Henson-Darko Th 4:00pm - 5:50pm	Seats (Total: 20) PHY 1108

TLPL306 Arts Integration in Elementary Classrooms

Credits: 3 Grading Method: Regular

Corequisite: EDCI322, EDCI362, EDCI397, and EDCI489. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching, Learning, Policy and Leadership department.

An exploration of the theories and core practices associated with integrating the arts in ways that promote student learning in the core subjects.

0101	Katherine Coogan Th 12:30pm - 3:15pm	Seats (Total: 0) TWS 1310
0201	Katherine Coogan M 12:30pm - 3:15pm	Seats (Total: 0) TYD 1108
0301	Susan Little Tu 12:30pm - 3:15pm	Seats (Total: 0) EDU 1315

UMEI **Maryland English Institute** **Spring 2016**

International students on F1 visas must maintain a full-time status. Full-time status for undergraduate students will be based on registration for 12 or more semester hours, for graduate students, it is a combination of courses equivalent to 48 units per semester. Registration in UMEI001-004 is equivalent to full-time study. Those enrolled in these courses are not permitted to enroll in any other course work. For further information on what constitutes full-time status, please see: <http://www.testudo.umd.edu/soc/fulltime.html>. UMEI courses do not carry credit toward any degree at the University and do not count in the retention plan. Additional fees are required for these courses. For more information, see the financial section in the Registration Guide.

UMEI001 English as a Foreign Language: Beginning

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has little or no previous knowledge of English. Focus on the rapid acquisition of the basic features of English grammar and pronunciation and on speaking and understanding American English; reading and writing appropriate to the level will be included. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Marilena Draganescu, Elizabeth Driver	Seats (Total: 16)
	MTuWThF 9:00am - 11:50am	SQH 1125
	MTuWThF 1:00pm - 2:50pm	SQH 1125

UMEI002 English as a Foreign Language: Intermediate I

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has had some previous instruction in English. Emphasis on improving listening and speaking skills, on mastering intermediate grammatical structures, and on expanding vocabulary. Includes practice in reading and writing appropriate to the level. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Natalie Upshaw, Heather Mehrrens	Seats (Total: 16)
	MTuWThF 9:00am - 11:50am	ARC 1123
	MF 1:00pm - 2:50pm	EDU 2102
	TuTh 1:00pm - 2:50pm	SQH 2120
	W 1:00pm - 2:50pm	JMZ 3118

UMEI003 English as a Foreign Language: Intermediate II

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has mastered the essential structures of English grammar. Emphasis on improving communicative skills for a wide range of linguistic situations, on rapid expansion of vocabulary, and on improving reading comprehension and basic writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Daniela Wagner-Loera, Caralyn Bushey	Seats (Total: 16)
	MTuWThF 9:00am - 11:50am	SQH 2113
	MTuWThF 1:00pm - 2:50pm	SQH 2113
0201	Instructor: TBA	Seats (Total: 16)
	MWF 9:00am - 11:50am	ARC 1125
	TuTh 9:00am - 11:50am	SQH 2120
	MWF 1:00pm - 2:50pm	Location: TBA
	TuTh 1:00pm - 2:50pm	Location: TBA

UMEI004 English as a Foreign Language: Intermediate III

(Perm req)

Credits: 12 Grading Method: Sat-Fail

Restriction: Permission of EDUC-Dean-Maryland English Institute department.

Intensive course for the non-native speaker of English who has a good command of the basic features of spoken and written English. Emphasis on refining speaking and listening skills, on improving reading speed and comprehension of academic texts, and on developing writing skills for academic courses. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Cornell Brellenthin, Raymond Smith	Seats (Total: 16)
	MWF 9:00am - 11:50am	KEY 0124
	TuTh 9:00am - 11:50am	HBK 0123
	MWF 1:00pm - 2:50pm	EDU 3233
	TuTh 1:00pm - 2:50pm	PHY 4222
0301	Annelies Galletta, Heather Mehrtens	Seats (Total: 16)
	MWF 9:00am - 11:50am	KEY 0123
	TuTh 9:00am - 11:50am	KEY 0124
	MWF 1:00pm - 2:50pm	MTH 0409
	TuTh 1:00pm - 2:50pm	ARC 1125

UMEI005

Advanced English as a Foreign Language

Credits: 6 Grading Method: Sat-Fail

Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Eric Walker	Seats (Total: 15)
	MTuWThF 10:00am - 11:50am	HBK 1112
0201	Charles Duquette	Seats (Total: 15)
	MWF 1:00pm - 2:50pm	TWS 1320
	TuTh 1:00pm - 2:50pm	JMZ 1226

UMEI006

English Pronunciation

(Perm req)

Credits: 2 Grading Method: Sat-Fail

Restriction: Must have graduate standing; and permission of EDUC-Dean-Maryland English Institute department.

Individualized class for the non-native speaker of English. Diagnosis of individual pronunciation problems. Practice in the correct pronunciation of English sounds and improvement of ability to speak English with proper stress and intonation patterns. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Eric Walker	Seats (Total: 20)
	MW 1:00pm - 2:30pm	PHY 1219

UMEI007**Advanced Writing for International Students**

Credits: 3

Grading Method: Sat-Fail

Restriction: Must have graduate standing.

A writing skills course for the non-native speaker of English with a good command of spoken English. This course does not carry credit towards any degree at the University and does not count in the retention plan.

0101	Susan Gould	Seats (Total: 15)
	TuTh 6:00pm - 7:50pm	HBK 0123
0201	Susan Gould	Seats (Total: 15)
	TuTh 9:00am - 10:50am	JMZ 1226
0301	Nasreen Abbas	Seats (Total: 15)
	MW 1:00pm - 2:50pm	TWS 1310

UNIV**University Courses****Spring 2016****UNIV099****Internship Seminar**

(Perm req)

Credits: 0

Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Restriction: Must have earned a minimum cumulative GPA of 2.0 (undergraduates) or 3.0 (graduate students); and Permission of the Career Center; and permission of instructor.

0101	Erica Ely, Theresa Hale	Seats (Total: 50)
	Contact instructor or department for details.	

UNIV100**The Student in the University**

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

Credit only granted for: EDCP1080 or UNIV100. Formerly: EDCP1080.

Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.

0101	TC Lloyd Th 3:00pm - 4:50pm <i>Restricted to First Semester BSOS Students.</i>	Seats (Total: 15) KEY 0121
0801	Thomas Steen Meets January 25, 2016 - April 25, 2016 M 11:00am - 12:50pm <i>Restricted to First Semester Letters and Sciences Students.</i>	Seats (Total: 20) PLS 1117
0805	Deborah Lake Meets January 25, 2016 - April 18, 2016 Tu 4:00pm - 5:50pm <i>Restricted to returning Destination Rome and Destination London students.</i>	Seats (Total: 20) KEY 0117

UNIV104
(Perm req)

STEP: Reading and Writing at the College Level

Credits: 1 Grading Method: Regular,
Pass-Fail

Restriction: Must be in STEP Individual Admits program.

A workshop designed to enhance students' college level reading and writing abilities to include study skills and strategies for success.

0101	Peter Grybauskas W 8:00am - 8:50am	Seats (Total: 15) HBK 0115
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UNIV106

The Transfer Student in the University

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be a first-semester Letters and Sciences transfer student. Credit only granted for: UNIV106 or EDCP108G.

For transfer students in Letters and Sciences. This course is designed to assist students in making a successful transition to the University of Maryland (UMD) and to serve as an extended orientation to campus living and learning.

0101	Celine Djomo, Melissa Hyre Tu 11:00am - 12:15pm	Seats (Total: 20) KEY 0123
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0102	Miki Brooks Th 2:00pm - 3:15pm	Seats (Total: 19) ARC 1123
0103	Ashleigh Brown W 3:00pm - 4:15pm	Seats (Total: 20) JMZ 1120

UNIV107

Science Technology Engineering Mathematics Colloquium

Credits: 1 Grading Method: Regular

Restriction: Must be a current student in Letters & Sciences.

For students interested in pursuing a STEM related major. Introduces students to the fundamentals of career and major exploration and career development within the various disciplines of STEM.

0807	Lee Ann Lewis, Monique Brown Meets February 1, 2016 - April 21, 2016 W 3:00pm - 3:50pm Tu 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 KEY 0120 Discussion
0808	Monique Brown, Lee Ann Lewis Meets February 1, 2016 - April 21, 2016 W 3:00pm - 3:50pm Tu 4:00pm - 4:50pm	Seats (Total: 20) MMH 1400 KEY 0119 Discussion
0810	Lee Ann Lewis, Monique Brown Meets February 1, 2016 - April 21, 2016 W 3:00pm - 3:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 CHM 1224 Discussion
0811	Lee Ann Lewis, Monique Brown Meets February 1, 2016 - April 21, 2016 W 3:00pm - 3:50pm M 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 PLS 1164 Discussion

UNIV108

Business Exploration Series Colloquium

Credits: 1 Grading Method: Regular

For students interested in pursuing a business career. Students learn the fundamentals of career development and what the internship/job search process entails.

Restriction: Must be a current student in Letters and Science. For students interested in pursuing a business career. Students learn the fundamentals of career development and what the internship/job search process entails.

0162	Lisa Scheeler M 4:00pm - 4:50pm W 3:00pm - 3:50pm	Seats (Total: 20) MMH 1400 KEY 0119	Discussion
0163	Lisa Scheeler M 4:00pm - 4:50pm W 4:00pm - 4:50pm	Seats (Total: 20) MMH 1400 KEY 0119	Discussion
0164	Lisa Scheeler M 4:00pm - 4:50pm Th 2:00pm - 2:50pm	Seats (Total: 20) MMH 1400 PLS 1168	Discussion
0165	Lisa Scheeler M 4:00pm - 4:50pm Tu 4:00pm - 4:50pm	Seats (Total: 20) MMH 1400 CHE 2116	Discussion
0265	Lisa Scheeler M 4:00pm - 4:50pm W 4:00pm - 4:50pm	Seats (Total: 20) MMH 1400 WDS 1127	Discussion
0268	Lisa Scheeler M 4:00pm - 4:50pm Th 4:00pm - 4:50pm	Seats (Total: 20) MMH 1400 PLS 1158	Discussion

UNIV269

Connecting Across Cultures

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV269A

Connecting Across Cultures; Cultural Realities of Spain

Credits: 1

Grading Method: Regular,
Pass-Fail, Audit

General Education: DVCC

An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.

Contact department for information to register for this course.

UNIV325 Beyond the Classroom Seminar I: Civic Engagement and Social Change in a Global Context

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Develops and applies the concept of civic engagement and strategies for enhancing civic engagement and advancing social justice in different contexts (global to local; multi-cultural). Develop students' leadership capacities and skills for fostering civil discourse and effective professional practices in the nonprofit and civil society sector. Students identify the key civic values, attitudes and expectations that motivate them personally as well as others to engage in civic action and leadership. Students prepare professional portfolios in preparation of a semester-long internship.

0101	James Riker	Seats (Total: 40)
	Tu 3:30pm - 5:30pm	SCC 1102
	Contact instructor or department for details.	

UNIV326 Beyond the Classroom Seminar II

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: UNIV325. Restriction: Must be in the Beyond the Classroom (BTC) living and learning program.

Seminar for students in internships and service-learning experiences as context for applying communication skills and knowledge of civic engagement leadership skills first introduced in UNIV325. Must be taken concurrently with experiential learning practicum.

0101	Melissa Del Rios	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

UNIV378 Beyond the Classroom Experiential Learning; Internship Experiences/Experiential Learning

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

This is the internship component of the Beyond the Classroom program in which students hold internships at organizations such as governmental units and non-profit agencies.

Prerequisite: For students in the Beyond the Classroom (BTC) living and learning program.

0101	James Riker	Seats (Total: 40)
Contact instructor or department for details.		

UNIV389A Special Topics in Undergraduate Studies; Army ROTC Independent Study Projects

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Larry Rentz	Seats (Total: 20)
Contact instructor or department for details.		

UNIV389J Special Topics in Undergraduate Studies; Federal Independent Study Projects

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Joan Burton	Seats (Total: 25)
Contact instructor or department for details.		

UNIV389K Special Topics in Undergraduate Studies; Special Topics in Experiential Learning Global Semester

(Perm req) Grading Method: Regular,
Credits: 3 Pass-Fail

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

0101	Starsky Cheng, Joan Burton, Jayakumar Arasan	Seats (Total: 38)
Contact instructor or department for details.		
0201	Jayakumar Arasan, Starsky Cheng, Joan Burton	Seats (Total: 38)
Contact instructor or department for details.		

UNIV389L Special Topics in Undergraduate Studies; BTC Seminar III, Civic Leadership for Community Engagement

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.

Prerequisite: UNIV325 and UNIV326, for advanced students in the Beyond the Classroom (BTC) Living and Learning Program. This multi-disciplinary seminar enables students to develop their leadership skills by working collaboratively with their peers on joint projects to enhance and to deepen civic engagement and constructive social change on key civic issues on campus and in the broader community on local, national and global issues. Students will carry out collaborative community-based research that addresses an important civic issue and advances civic knowledge for solving that issue. Students will write a research paper (BTC monograph) and contribute to a joint professional report. The seminar will culminate in a BTC civic education or showcase event (e.g., public forum, conference, hearing, video presentation, etc.) where students will share their findings with the broader campus and members of the relevant community.

0101	James Riker	Seats (Total: 20)
Contact instructor or department for details.		

UNIV399 Experiential Learning in Undergraduate Studies

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

0101	Joan Burton	Seats (Total: 10)
Contact instructor or department for details.		

UNIV399P Experiential Learning in Undergraduate Studies; People Power -- Activism for Social Change

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.

0101	James Riker	Seats (Total: 50)
	M 7:00pm - 9:00pm	SCC 1102

UNIV798A Special Topics Colloquium on University Teaching and Learning; Introduction to University Teaching

Credits: 2 Grading Method: Regular,
Audit

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the University Teaching and Learning Program.

0101	Scott Roberts	Seats (Total: 13)
	Tu 3:00pm - 5:00pm	MCK 4123

UNIV798B Special Topics Colloquium on University Teaching and Learning; Introduction to University Teaching

(Perm req)

Credits: 1 Grading Method: Regular

Special topic courses directed at experienced graduate teaching assistants who are interested in university teaching and learning issues. Can be used by students for participation in the University Teaching and Learning Program.

Prerequisite: permission of instructor.

0101	Scott Roberts	Seats (Total: 10)
	Tu 3:00pm - 5:00pm	MCK 4123

URSP Urban Studies and Planning Spring 2016

URSP399I Independent Study

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP600 Research Design and Application

Credits: 3 Grading Method: Regular

Formerly: URSP602.

Techniques in urban research, policy analysis, and planning. Survey of descriptive and normative models. Objective and subjective measurements. Emphasis on assumptions of research.

0101	Alexander Chen	Seats (Total: 19)
	Th 4:00pm - 6:30pm	ARC 1125

URSP601 Research Methods

Credits: 3 Grading Method: Regular, Audit

*Recommended: An undergraduate-level statistics course; and familiarity with Microsoft Excel.
Formerly: URBS601.*

Use of measurement, statistics, quantitative analysis, and micro-computers in urban studies and planning.

A Partnership for Action Learning in Sustainability (PALS) course where students apply classroom learning to actual community needs.

0101	Casey Dawkins	Seats (Total: 15)
	Tu 7:00pm - 9:30pm	ARC 0111

URSP603 Land Use Planning: Concepts and Techniques

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: URSP603, URBS680, or URBS603. Formerly: URBS603.

Land use concepts and definitions: legal context for planning; markets and planning; planning for housing; community services, employment, utilities, and transportation; zoning; subdivision regulations; growth management; plan implementation.

0101	Denis Superczynski	Seats (Total: 20)
	M 7:00pm - 9:30pm	ASY 3221

URSP606 Microeconomics of Planning and Public Policy

Credits: 3 Grading Method: Regular

Restriction: Must not have completed URSP630. Credit only granted for: URSP606, URBS606, or URBS630. Formerly: URBS606.

Resource allocation in a market economy, the nature of market failures, and the justifications for public sector intervention. The limits and possibilities for planning in a market economy.

0101	Chengri Ding	Seats (Total: 15)
	M 4:00pm - 6:30pm	ASY 3221

URSP631 Transportation and Land Use

(Perm req) Credits: 3 Grading Method: Regular, Audit

Credit only granted for: URSP631 or URSP688L. Formerly: URSP688L.

The interrelationship between transportation and land use. What are the impacts of various transportation modes on land use patterns, and how can land use solutions influence travel demand. The integration of transportation into master planning and site impact analysis. Using quantitative methods to understand the land use and transportation linkage.

0101	Hiroyuki Iseki	Seats (Total: 19)
	Tu 4:00pm - 6:30pm	ARC 1125

URSP640 Growth Management and Environmental Planning

Credits: 3 Grading Method: Regular,
Audit

Topics associated with growth management, defined as policies and strategies by which governments attempted to control the amount, location, pace, pattern and quality of development within their jurisdictions.

0101	James Cohen	Seats (Total: 25)
	Th 7:00pm - 9:30pm	ARC 1103

URSP661 City and Regional Economic Development Planning

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: URSP606 or URSP660. Credit only granted for: URSP661, URBS440, or URBS661. Formerly: URBS661.

Spatial patterns of employment and populations, and models of urban and regional growth and decline. Focus on application of economic theory and urban planning techniques to issues of local economic development and planning.

0101	Marie Howland	Seats (Total: 19)
	M 9:00am - 1:00pm	ARC 1127

URSP664 Real Estate Development for Planners

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: URSP606. Credit only granted for: URSP664 or URSP688F. Formerly: URSP688F.

Planning, Architectural and Public Policy students are introduced to the real estate development process primarily from the point of view of the private entrepreneurial developer. It will include the steps in undertaking a real estate development from the initial concept to the property management and final disposition, the basic financial and tax concepts underlying real estate development, a review of national housing policy, including public-private partnerships, and solving specific real estate development problems using financial spread-sheets.

0101	David Falk	Seats (Total: 26)
	W 4:00pm - 6:30pm	SQH 1117

URSP673

Social Planning

Credits: 3 Grading Method: Regular,
Audit

Credit only granted for: URSP673, URBS683, or URBS673. Formerly: URBS673.

Planning programs and policies in health, education, and social welfare. Strategies for organizational and community change and development.

0101	Willow Lung Amam	Seats (Total: 20)
	M 4:00pm - 6:30pm	ARC 1119

URSP688G

Recent Developments in Urban Studies; Story Mapping Neighborhood Change in Washington DC

Credits: 3 Grading Method: Regular,
Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Willow Lung Amam	Seats (Total: 15)
	Tu 4:00pm - 6:30pm	ARC 1119

URSP688M

Recent Developments in Urban Studies; Intermediate Geographic Information Systems

Credits: 3 Grading Method: Regular,
Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Harutyun Shahumyan, Chao Liu	Seats (Total: 20)
	Th 4:00pm - 6:30pm	ARC 0111

URSP709**Field Instruction**

Credits: 3

Grading Method: Regular,
Audit

Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's area of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.

Prerequisites: URSP600, URSP604, URSP605 or permission of the department.

0101

James Cohen

Seats (Total: 10)

Contact instructor or department for details.

URSP788**Independent Study in Urban Studies and Planning**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Directed research and study of selected aspects of urban affairs.

Contact department for information to register for this course.

URSP798**Readings in Urban Studies and Planning**

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Directed readings in selected aspects of urban affairs and planning.

Contact department for information to register for this course.

URSP799**Master's Thesis Research**

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

URSP804**Advanced Planning Theory**

Credits: 3

Grading Method: Regular,
Audit

Relations between theory and practice in planning. Ways of developing and using knowledge in collective action. Challenges to organizing for planning, finding knowledge useful for planning and balancing social attachments with free inquiry.

0101	James Cohen	Seats (Total: 6)
	W 1:00pm - 3:30pm	ARC 1119

URSP805 Seminar in Research Design

Credits: 3 Grading Method: Regular

Prerequisite: URSP804 and URSP810.

Addresses fundamental aspects of research design for Ph.D students in urban planning and policy-related fields. Topics include principles of research design, formulating a feasible hypothesis and identifying appropriate methodology for testing hypotheses eg. qualitative methods, quantitative methods, survey research. Writing of proposals and dissertation. Publication, presentation, and funding.

0101	Gerrit Knaap, Sevgi Erdogan	Seats (Total: 15)
	Th 1:00pm - 3:30pm	JMZ 3118

URSP898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Sat-Fail

Selected topics in Urban Studies and Planning. Topics will vary with the instructor.

Contact department for information to register for this course.

URSP899 Doctoral Dissertation Research

(Perm req)

Credits: 6 Grading Method: Sat-Fail

This course is a required course for the Ph.D program in Urban and Regional Planning and Design.

Contact department for information to register for this course.

USLT Latina/o Studies Spring 2016

USLT202 US Latina/o Studies II: A Contemporary Overview 1960's to present

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB, D

Interdisciplinary course on emerging populations of Latinos in the 20th century with a focus on the multiple waves of latino immigration as a result of neocolonialism, imperialism, globalization and transnationalism. Examines the positioning of immigrant waves in the political, sociocultural and historical contexts of US Latinidades.

Also offered as IMMR219B. Credit granted for IMMR219B or USLT202.

0101	Perla Guerrero	Seats (Total: 30)
	TuTh 9:30am - 10:45am	SQH 1101

USLT488B US Latina/o Senior Seminar

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

A variable topics seminar that exposes students to interdisciplinary critical readings, writings, and research in U.S. Latina/o Studies. Interdisciplinary research methodologies are broadly addressed. Students will gain skills and practice in reading critical analytic texts and will develop writing skills.

0101	Nancy Mirabal	Seats (Total: 15)
	MW 2:00pm - 3:15pm	TWS 0134

USLT498A US Latina/o Studies: Special Topics; Latinas/os on the Silver Screen

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Specific content to be announced when courses are offered.

0101	Robert Chester	Seats (Total: 35)
	TuTh 11:00am - 12:15pm	PLS 1111

USLT498B US Latina/o Studies: Special Topics; Latinas/os and U.S. Popular Culture

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Specific content to be announced when courses are offered.

0101	Robert Chester	Seats (Total: 35)
	TuTh 2:00pm - 3:15pm	EGR 1108

USLT498V US Latina/o Studies: Special Topics; Immigrant Communities, Leadership, and Organizing

(Perm req)

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Specific content to be announced when courses are offered.

Also offered as IMMR319D or AMST399Y or AAST398X. Credit granted for AAST398X or IMMR319D or USLT498V. Class explores the political, social, and historical forces that have shaped the current immigration context. Using popular education and project-based learning, students will critically analyze how public policies related to immigration are affecting young immigrants, with special focus on undocumented youth and students.

0101	Jude Paul Dizon, Yvette Lerma	Seats (Total: 20)
	Th 4:00pm - 6:30pm	BPS 1232

VMSC **Veterinary Medical Sciences** **Spring 2016**

VMSC688A Special Topics in Veterinary Medical Sciences; Advances in Reverse Genetics of Animal Viruses

Credits: 1-4 Grading Method: Regular

Lectures and discussions on current topics in veterinary medicine s as animal disease surveillance, risk analysis, molecular epidemiolo or fish pathology. Targeted at veterinary medicine (DVM) students a other graduate students with a background in veterinary medical sciences.

0101	Siba Samal	Seats (Total: 10)
	Contact instructor or department for details.	

VMSC698 Seminar in Veterinary Medical Science

Credits: 1 Grading Method: Regular

Presentation and discussion of scientific publications, current topics and new methodologies related to veterinary medical sciences.

0101	Sunil Khattar	Seats (Total: 20)
	Th 11:00am - 12:00pm	Location: TBA
	Contact instructor or department for details.	

VMSC699 Special Problems in Veterinary Medical Sciences

Credits: 1-4 Grading Method: Regular

Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.

Contact department for information to register for this course.

VMSC720 Viral Pathogenesis

Credits: 2 Grading Method: Regular,
Audit

Restriction: Permission of instructor.

This course will teach graduate students about mechanisms of infections by animal and human viral pathogens, including virus-cell interactions, host responses, and consequences of virus infection. Particular attention will be focused on the molecular mechanisms of the interactions between virus and host.

0101	Yanjin Zhang	Seats (Total: 20)
	F 10:00am - 11:50am	Location: TBA

VMSC780 Parasites of Medical and Veterinary Importance

Credits: 2 Grading Method: Regular

Restriction: Permission of instructor.

Provides students with the basic knowledge of parasites as well as research advancement in important parasites of humans and animals. Particular attention will be given to parasite biology, pathogenesis, and host responses to parasitic infection. A selection of parasites of medical and veterinary importance will be specifically covered with emphasis on recent research breakthroughs in the field.

Contact department for information to register for this course.

VMSC799 Thesis Research

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

VMSC898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

VMSC899 Dissertation Research

(Perm req)

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

WMST Women's Studies **Spring 2016**

Both WMST 200 and 250 serve as introductory courses for WMST and may be required before taking some advanced courses with a WMST prefix.

WMST200 Introduction to Women's Studies: Women and Society

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: SB, D General Education: DSHS,
DVUP

An interdisciplinary study of the status, roles, and experiences of women in society. Sources from a variety of fields such as literature, psychology, history, and anthropology, focusing on the writings of women.

0101	Tangere Hoagland TuTh 2:00pm - 3:15pm	Seats (Total: 25) SPH 0303
0201	Sun Kim MW 3:00pm - 4:15pm	Seats (Total: 25) JMZ 0118

WMST211

Women in America Since 1880

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH, D

Also offered as: HIST211. Credit only granted for: HIST211 or WMST211.

An examination of women's changing roles in working class and middle class families, the effects of industrialization on women's economic activities and status, and women's involvement in political and social struggles, including those for women's rights, birth control, and civil rights.

0101	Katarina Keane MW 11:00am - 11:50am M 1:00pm - 1:50pm	Seats (Total: 20) KEY 0102 TLF 2103 Discussion
0102	Katarina Keane MW 11:00am - 11:50am Tu 12:30pm - 1:20pm	Seats (Total: 20) KEY 0102 KEY 0124 Discussion
0103	Katarina Keane MW 11:00am - 11:50am M 2:00pm - 2:50pm	Seats (Total: 20) KEY 0102 TLF 2103 Discussion
0104	Katarina Keane MW 11:00am - 11:50am W 12:00pm - 12:50pm	Seats (Total: 20) KEY 0102 KEY 0117 Discussion

WMST250

Introduction to Women's Studies: Women, Art and Culture

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSHU, DVUP

An examination of women's creative powers as expressed in selected examples of music, film, art, drama, poetry, fiction, and other literature. Explores women's creativity in relation to families, religion, education, ethnicity, class, sexuality, and within a cultural tradition shaped by women.

0101	Sara Haq TuTh 9:30am - 10:45am	Seats (Total: 22) WDS 1130
0201	Sara Haq TuTh 12:30pm - 1:45pm	Seats (Total: 22) JMZ 1120
0301	Melissa Stevens TuTh 11:00am - 12:15pm	Seats (Total: 22) WDS 1130
0401	Melissa Stevens TuTh 2:00pm - 3:15pm	Seats (Total: 22) HBK 1108
0501	Donnesha Blake TuTh 11:00am - 12:15pm	Seats (Total: 22) WDS 0104
0601	Donnesha Blake TuTh 2:00pm - 3:15pm	Seats (Total: 22) KEY 0123
0701	Sina Lee MWF 12:00pm - 12:50pm	Seats (Total: 22) KEY 0126
0801	Jaime Madden MWF 1:00pm - 1:50pm	Seats (Total: 22) WDS 1130
0901	Jaime Madden MWF 11:00am - 11:50am	Seats (Total: 22) CHM 0119
1001	Sina Lee MWF 10:00am - 10:50am	Seats (Total: 22) WDS 0104
1101	Justin Sprague MW 2:00pm - 3:15pm	Seats (Total: 22) WDS 1130
1201	Eve Grice TuTh 12:30pm - 1:45pm	Seats (Total: 22) JMZ 1224
1301	Eve Grice TuTh 3:00pm - 4:15pm	Seats (Total: 22) WDS 0104

WMST255**Reading Women Writing**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HL, D General Education: DSHU,
DVUP

Also offered as: ENGL250. Credit only granted for: WMST255 or ENGL250.

Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.

0201	Danielle Griffin	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	KEY 0125

WMST265**Constructions of Manhood and Womanhood in the Black Community**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit CORE: HO, D General Education: DSHS,
DVUP

Investigates the ways that African Americans are represented and constructed in public and private spheres and explores the social constructions and representations of Black manhood and womanhood from various disciplinary perspectives.

Additional Note: Also offered as AASP298B. Credit granted for WMST265 or AASP298B.

0101	Dennis Doster	Seats (Total: 30)
	W 6:00pm - 8:30pm	KEY 0103

WMST269G**Special Topics in Study Abroad II; Topics on Gender Studies**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269I**Special Topics in Study Abroad II; Social Problems: Women's Issues in Indian Society**

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269R Special Topics in Study Abroad II; Making Gender, Sexuality and Race

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST269W Special Topics in Study Abroad II; Social Problems: Women's Issues Field Study

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST275 World Literature by Women

Credits: 3 Grading Method: Regular, CORE: HL, D General Education: DSHU,
Pass-Fail, Audit DVUP

Also offered as: CMLT275. Credit only granted for: WMST275 or CMLT275.

Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.

0101	Ines Rivera	Seats (Total: 30)
	TuTh 12:30pm - 1:45pm	HBK 1112
0201	Sarah Bonnie	Seats (Total: 30)
	MWF 10:00am - 10:50am	TWS 1320

WMST298D Women's Bodies in Contention

Credits: 3 Grading Method: Regular, CORE: HA, D General Education: DSHS,
Pass-Fail, Audit DVUP, SCIS

0101	Ashwini Tambe	Seats (Total: 20)
	Tu 2:00pm - 3:40pm	TYD 0117
	Th 2:00pm - 2:50pm	WDS 1127 Discussion
0102	Ashwini Tambe	Seats (Total: 20)
	Tu 2:00pm - 3:40pm	TYD 0117
	Th 2:00pm - 2:50pm	PLS 1158 Discussion

0103	Ashwini Tambe	Seats (Total: 20)	
	Tu 2:00pm - 3:40pm	TYD 0117	
	Th 2:00pm - 2:50pm	TWS 1321	Discussion
0104	Ashwini Tambe	Seats (Total: 20)	
	Tu 2:00pm - 3:40pm	TYD 0117	
	Th 2:00pm - 2:50pm	SPH 0301	Discussion

WMST298F Special Topics in Women's Studies; Gender and Financial Well-being

Credits: 1 Grading Method: Regular,
Pass-Fail, Audit

Meets 2/1, 2/15, 2/29, 3/21, 4/4, and 4/18. Facilitates the development of greater economic acumen among women about systems of finance and economics in the world and encourages women's critical engagement in finance and economics. The course teaches students, especially women students, the nuts and bolts of managing personal finances and encourages students to consider careers in finance, while learning skills needed for leadership.

0101	Julie Enszer	Seats (Total: 35)	
	Meets February 2, 2016 - April 20, 2016		
	M 4:00pm - 6:00pm	WDS 0104	

WMST298J Special Topics in Women's Studies; Gender and Body in Iran

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as PERS252. Credit granted for PERS252 or WMST298J. Multidisciplinary approach to key topics concerning gender and body in Iran, to include insights from religion, history, sociology, anthropology, disability studies, travel literature, arts, and fashion.

0101	Ida Meftahi	Seats (Total: 30)	
	MW 3:30pm - 4:45pm	JMZ 2207	

WMST325 The Sociology of Gender

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Prerequisite: 3 credits in SOCY courses. Also offered as: SOCY325. Credit only granted for: SOCY325 or WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

0101	Wei-hsin Yu	Seats (Total: 80)
	TuTh 12:30pm - 1:45pm	ASY 1213
0601	Sarah Wanenchak	Seats (Total: 47)
	TuTh 8:00am - 9:15am	ASY 3203

WMST336 Psychology of Women

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHS

Prerequisite: PSYC100. Also offered as: PSYC336. Credit only granted for: PSYC336 or WMST336.

A study of the biology, life span development, socialization, personality, mental health, and special issues of women.

Restricted to WMST or PSYC undergraduate students only.

0101	Nazish Salahuddin	Seats (Total: 110)
	MW 11:00am - 11:50am	BPS 1250
	F 11:00am - 11:50am	ONLINE

WMST350 Feminist Pedagogy

(Perm req)

Credits: 6 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ARHU-Women's Studies department.

General application of feminist methodology to teaching and communication skills, teaching strategies, motivation, classroom dynamics and knowledge of students' development and learning styles.

Contact department for information to register for this course.

WMST369B Special Topics in Study Abroad III; Spanish and Basque Gender Studies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST369L Special Topics in Study Abroad III; Women and Society: Latin American Perspectives

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST386

Experiential Learning

(Perm req)

Credits: 1-6 Grading Method: Regular,
Pass-Fail

Restriction: Must have Learning Proposal approved by Women's Studies Academic Advisor; and junior standing or higher.

Contact department for information to register for this course.

WMST400

Theories of Feminism

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Prerequisite: 1 course in WMST; or must have completed a course cross-listed with a WMST course.

A study of the multiplicity of feminist theories which have been developed to explain women's position in the family, the workplace, and society. Major feminist writings are considered in the context of their historical moment and in the context of the intellectual traditions to which they relate.

0101	Michele Prince	Seats (Total: 30)
	TuTh 11:00am - 12:15pm	KEY 0125

WMST452

Women in the Media

Credits: 3 Grading Method: Regular, , D General Education: DVUP
Pass-Fail, Audit

Also offered as: JOUR452. Credit only granted for: JOUR452 or WMST452.

Participation and portrayal of women in the mass media from colonial to contemporary times.

0101	Renee Poussaint	Seats (Total: 30)
	TuTh 2:00pm - 3:15pm	KNI 1103

WMST468B

Feminist Cultural Studies; Sonic Representations of Gender & Sexuality in the African Diaspora

Credits: 3 Grading Method: Regular

Each version of this course focuses on one or several forms of popular culture -- such as TV, music, film, cyber-culture, or genre fiction (for example, science fiction) -- and demonstrates how feminists value, critique and explain such forms. Tools of feminist cultural studies include economic and social analyses of power, race, sexuality, gender, class, nationality, religion, technology, and globalization processes.

Can studying black music offer us new ways of understanding gender, sexuality, and race in the 21st century? If so what would that mean for how we combat racism, sexism, homophobia, transphobia, and xenophobia? What does a body sound like when it is race, gendered, or sexualized? Using the field of sound studies as a guide, class will investigate the creation of gender and sexuality through the sounds of blackness in various mediums and genres from the 19th to 21st century throughout the African Diaspora.

0101	Lamonda Horton-Stallings	Seats (Total: 30)
	W 3:30pm - 6:00pm	WDS 1130

WMST468C Feminist Cultural Studies; Feminist and Queer Theatre and Performance Art in Theory and Practice

Credits: 3 Grading Method: Regular

Each version of this course focuses on one or several forms of popular culture -- such as TV, music, film, cyber-culture, or genre fiction (for example, science fiction) -- and demonstrates how feminists value, critique and explain such forms. Tools of feminist cultural studies include economic and social analyses of power, race, sexuality, gender, class, nationality, religion, technology, and globalization processes.

This course brings together politics and the related, but not twin, arts of theatre and performance. Focusing primarily, though not exclusively, on the U. S., students will study feminist and queer performance theories and practices from suffrage theatre through Pussy Riot. Integral to the practice of political theatre and performance is the manifesto. Students will study historical models of feminist and queer practice and consider the art of the manifesto as a theoretical statement of artistic and political intention, prior to producing their own manifestos. These will function as the blueprints for the final projects: fully realized feminist or queer political performances. These performances can be realized as conventionally scripted theatre or in a genre of performance art. Students can work singly or in groups and the requirements of the course can be fulfilled through writing, directing, designing, or performing in the final projects. This course offers an opportunity for students experienced in theatre, performance, politics, and activism, but also welcomes novices who have a desire to both learn the scholarship and theory and try their hand at the practice.

0101	Catherine Schuler	Seats (Total: 20)
	Th 3:30pm - 6:00pm	WDS 1130

WMST469G Study Abroad Special Topics IV; Gender Studies: A Global Perspective

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST469M Study Abroad Special Topics IV; Sociology, Gender and Indigenous Beliefs in Mexican Cultures

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program

Contact department for information to register for this course.

WMST471 Women's Health

Credits: 3 Grading Method: Regular, , D
Pass-Fail, Audit

Restriction: Must be in a major within ARHU-Women's Studies department; or must be in a major within SPHL-Behavioral & Community Health department. Also offered as: HLTH471. Credit only granted for: HLTH471 or WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

Restriction: Must be in a major within SPHL-Behavioral & Community Health department; or must be in a major within ARHU-Women's Studies department. Also offered as: HLTH471H. Credited granted for HLTH471, HLTH471H, or WMST471. The historical, physiological, psychological, and sociological mechanisms which contribute to women's health. Topics will include gynecological concerns and reproductive health; nutrition, exercise; violence; substance use/abuse; and the health of special populations.

0101	Faika Zanjani	Seats (Total: 90)
	MWF 10:00am - 10:50am	SPH 1312

WMST488D Senior Seminar; Feminist Questions Queer Research: The Caribbean as Context

(Perm req)

Credits: 3 Grading Method: Regular

Seminar for advanced majors in women's studies or other students with appropriate preparation. Interdisciplinary topics will vary each semester.

Using the socio-political context of LGBT organizing in the Caribbean as its context, this course invites students to examine the parameters of feminist research. In this course students will engage some of the key methodological and epistemological questions of feminist research, learn about some of the key points of lgbt activism underway in the Caribbean, and develop individual research topics.

0101	Michelle Rowley	Seats (Total: 15)
	Tu 2:00pm - 4:30pm	WDS 2101R

WMST498I Advanced Special Topics in Women's Studies; Women of Color Feminisms and Solidarities

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as AAST398V or AMST328P. Credit granted for AAST398V, AMST328P, or WMST498I.
Explores the theoretical and political interventions of women of color feminist thinkers, as well as
strategies of community-building and working together across differences.

0101	Thu Khuc	Seats (Total: 20)
	F 10:00am - 12:30pm	SQH 1117

WMST498L Advanced Special Topics in Women's Studies; Women in Israel

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Contact department for information to register for this course.

WMST498R Advanced Special Topics in Women's Studies; Art and Sexuality in Latin America

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as LASC448X and LGBT448N. Credit granted for LASC448X, LGBT448N, or WMST498R.
Latin Americans have historically used transgressive art and literature to critique and resist gender and
sexual norms. Focusing on Mexico, Brazil, Argentina, Cuba, and Nicaragua, this interdisciplinary course
will examine contemporary and historical portrayals of sexuality and non-normative gender through the
lenses of film, visual art, literature, and music.

0101	Lucinda Grinnell	Seats (Total: 25)
	MWF 1:00pm - 1:50pm	JMZ 1224

WMST498V Advanced Special Topics in Women's Studies

Credits: 1-3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as ENGL379Z. Credit granted for ENGL379Z or WMST498V.

0101	Jessica Enoch	Seats (Total: 29)
	MW 2:00pm - 3:15pm	TWS 0201

WMST498Y Advanced Special Topics in Women's Studies; Erotics, Dickinson, and American Women Poets

Credits: 3 Grading Method: Regular,
Pass-Fail, Audit

Also offered as ENGL439D and LGBT448Y. Credit granted for ENGL439D, LGBT448Y, or WMST498Y.

0101	Martha Nell Smith	Seats (Total: 24)
	MW 3:30pm - 4:45pm	TWS 0214

WMST499 Independent Study

(Perm req)

Credits: 1-3 Grading Method: Regular,
Pass-Fail

Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST602 Approaches to Women's Studies II

(Perm req)

Credits: 3 Grading Method: Regular,
Audit

Prerequisite: WMST400; or students who have taken courses with comparable content may contact the department.

Continued examination of intersectionality and interdisciplinarity with emphasis on the politics of knowledge production and identity.

0101	Elsa Barkley Brown	Seats (Total: 12)
	W 3:30pm - 6:00pm	WDS 2101R

WMST618 Feminist Pedagogy

(Perm req)

Credits: 3 Grading Method: Regular

Examines the higher education classroom from a feminist perspective through theory and analysis. Students are graduate teaching assistants with the Women's Studies department.

0101	Ashwini Tambe	Seats (Total: 6)
	TBA	WDS 1131

WMST619 Women's Studies Teaching Practicum

(Perm req)

Credits: 1 Grading Method: Regular

Provides Women's Studies graduate teaching assistants with ongoing regular faculty supervision during the semesters the students are teaching WMST courses.

0101	Robyn Muncy	Seats (Total: 10)
	Contact instructor or department for details.	

WMST621 Feminist Theories and Women's Movements: Genealogies

(Perm req)

Credits: 3

Grading Method: Regular,
Audit*Prerequisite: WMST400; or permission of ARHU-Women's Studies department.*

Examines theories to explain the matrix of domination from the nineteenth century to the present. Students learn the key debates that produced new insights and shifted the ground of subsequent feminist theorizing within multi-racial feminisms. Examines those debates within global perspectives. Examines how dominant theoretical frameworks have been developed at specific historical moments.

0101	Lamonda Horton-Stallings	Seats (Total: 12)
	M 6:00pm - 8:30pm	WDS 1127

WMST628 Women's Studies Colloquium

(Perm req)

Credits: 1

Grading Method: Sat-Fail

An intensive advanced exploration of current problems and issues in women's studies.

For WMST students only.

0101	Michelle Rowley	Seats (Total: 20)
	Contact instructor or department for details.	

WMST698Y Special Topics in Women's Studies; Gender and Politics

Credits: 3

Grading Method: Regular,
Audit*Advanced work in selected topics in Women's Studies.*

Also offered as GVPT888G. Credit granted for GVPT888G and WMST698Y. This seminar explores key issues of gender inequality in political representation and behavior. The course covers a wide range of questions on the role of gender in politics from a comparative and international perspective. Students will examine topics such as the adoption and impact of gender quotas in electoral laws, candidate selection and political recruitment, women in the state and in conflict, and gender identity and social movements. The seminar will highlight some of the more novel and interesting methodological approaches to studying the politics of gender and women, such as field and survey experiments and social network analysis. A guiding theme of the seminar is inequality, broadly understood. Consequently, students will explore also how gender interacts with the politics of race and class.

0101	Isabella Alcaniz	Seats (Total: 12)
	M 9:30am - 12:15pm	TYD 1111

WMST699 Independent Study

(Perm req)

Credits: 1-3

Grading Method: Regular,
Audit

Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Women's Studies Department.

Contact department for information to register for this course.

WMST709 Directed Independent Reading for Major Field Exam

(Perm req)

Credits: 1-4

Grading Method: Sat-Fail

Directed reading in preparation for Major Field Exam. In consultation with their advisors, students identify, analyze, critique and synthesize material relevant to their major fields of inquiry. Grading will be based on combinations of oral performance in the bi-weekly meetings, production of annotated bibliographies and synthetic papers.

Contact department for information to register for this course.

WMST799 Masters Thesis Research

(Perm req)

Credits: 1-6

Grading Method: Regular

Contact department for information to register for this course.

WMST898 Pre-Candidacy Research

(Perm req)

Credits: 1-8

Grading Method: Regular, Sat-
Fail

Contact department for information to register for this course.

WMST899 Doctoral Dissertation Research

(Perm req)

Credits: 6

Grading Method: Regular

Contact department for information to register for this course.
